One Stop Personalized Career and Educational Advisor

Nithin. A[1], Harish. B[2], Prashanth. B [3], Shirisha. CH [4], Raviteja. CH [5], Dr Prasad. D [6],

Dr Saravanan.M[7]

UG Student, B.Tech CSE 4th Year, Holy Mary Inst. of Tech. and Science, Hyderabad, TG, India, [1]

UG Student, B.Tech CSE 4th Year, Holy Mary Inst. of Tech. and Science, Hyderabad, TG, India, [2]

UG Student, B.Tech CSE 4th Year, Holy Mary Inst. of Tech. and Science, Hyderabad, TG, India, [3]

UG Student, B.Tech CSE 4th Year, Holy Mary Inst. of Tech. and Science, Hyderabad, TG, India, [4]

UG Student, B.Tech CSE 4th Year, Holy Mary Inst. of Tech. and Science, Hyderabad, TG, India, [5]

Professor, Department of CSE, Holy Mary Inst. of Tech. and Science, Hyderabad, TG, India [6]

Professor, Holy Mary Inst. of Tech. and Science, Hyderabad, TG, India[7]

ABSTRACT: The One-Stop Personalized Career and Educational Advisor is an intelligent guidance system designed to help individuals make informed decisions about their career paths and educational journeys. The platform analyzes a user's interests, skills, academic background, and career goals to provide personalized recommendations on suitable careers, courses, certifications, and learning pathways. By integrating career counseling and educational planning into a single solution, the system reduces confusion and helps users clearly understand the options available to them.

This advisor acts as a comprehensive support tool for students and job seekers by offering career roadmaps, skill-gap analysis, and recommendations aligned with current industry trends. It empowers users to plan short-term and long-term goals efficiently while saving time and effort spent searching across multiple platforms. Ultimately, the system aims to bridge the gap between education and employment by delivering accurate, customized, and practical guidance in one centralized platform.

the One-Stop Personalized Career and Educational Advisor provides an effective and user-centric solution for career and academic planning. By delivering customized guidance based on individual profiles and industry requirements, the system helps users make confident and well-informed decisions. This integrated approach not only simplifies career exploration but also enhances employability and lifelong learning, making it a valuable tool for students and job seekers in today's dynamic professional environment.

KEYWORDS: Personalized career guidance, educational advisory system, career recommendation system, aptitude and interest analysis, student career counseling, government college information system, educational pathway mapping, skill assessment, career planning platform, AI-based guidance system, digital career counseling, student decision support system, NEP 2020 aligned education system.

1.INTRODUCTION

Education plays a vital role in shaping an individual's career and overall socio-economic development. Choosing the right academic stream and career path after secondary education is one of the most critical decisions for students. However, many students, particularly in developing countries like India, face significant challenges due to limited access to reliable guidance, lack of awareness about available opportunities, and insufficient career counseling at the school level.

In rural and semi-urban regions, these challenges are further intensified by socio-economic constraints and inadequate exposure to higher education pathways. Students often rely on peer opinions or incomplete information, leading to confusion, poor academic choices, and eventually higher dropout rates. The absence of structured and personalized career guidance systems makes it difficult for students to align their interests and abilities with suitable educational and career options.

Although various online platforms provide career-related information, most of them offer generalized suggestions rather than personalized recommendations. These systems frequently focus on private institutions and fail to integrate aptitude assessment, interest analysis, and localized government college information into a single platform. As a result, students are unable to obtain comprehensive and trustworthy guidance tailored to their individual profiles.

Recent advancements in artificial intelligence and data analytics have opened new possibilities for developing intelligent career guidance systems. By leveraging aptitude testing, interest mapping, and recommendation algorithms, digital platforms can now deliver customized academic and career advice. Such technologies enable students to make informed decisions based on their strengths, preferences, and long-term career prospects.

The proposed project, One-Stop Personalized Career & Education Advisor, aims to address these challenges by providing an integrated digital guidance platform. The system assesses students' aptitude, interests, and academic background through interactive quizzes and analyzes this data to recommend suitable academic streams, degree programs, and career pathways. This approach ensures that guidance is personalized, structured, and aligned with individual potential.

In addition to career recommendations, the platform offers centralized access to verified information about nearby government colleges, including available courses, fee structures, facilities, accreditation, and scholarship opportunities. By consolidating this information in one place, the system enhances transparency and enables students to explore affordable and quality education options that are often overlooked.

Overall, the One-Stop Personalized Career & Education Advisor seeks to empower students by reducing confusion, improving decision-making accuracy, and promoting informed educational planning. By bridging the gap between students and reliable career guidance, the system contributes to increased enrollment in higher education, reduced dropout rates, and the development of a more skilled and confident workforce.

II. LITERATURE REVIEW

Several studies emphasize the importance of structured career guidance in improving students' academic and professional outcomes. Research indicates that early and informed career counseling helps students align their interests and abilities with suitable educational pathways, thereby reducing confusion and dropout rates. Traditional guidance systems, however, often rely on manual counseling methods, which are limited in reach and effectiveness, especially in rural and resource-constrained regions.

The National Education Policy (NEP) 2020 highlights the need for holistic student development through career awareness, flexibility in subject choices, and the integration of digital technologies in education. The policy promotes personalized learning and guidance but does not prescribe a specific technological framework for localized career counseling or government college mapping. This creates a gap between policy objectives and practical implementation at the grassroots level.

The UNESCO Global Education Monitoring Report (2023) underscores the importance of equitable access to academic and career guidance to ensure inclusive education. The report identifies digital platforms as effective tools for expanding access to guidance services but points out that many existing systems lack regional relevance and fail to integrate country-specific educational structures, particularly in developing nations like India.

Studies conducted by the World Bank reveal that lack of awareness about higher education pathways and employment opportunities is a major contributor to student dropouts after secondary education. Their findings stress the need for unified systems that provide real-time, accurate information about courses, institutions, and career outcomes. However, existing solutions are often fragmented and do not offer personalized recommendations based on individual aptitude and interests.

Recent research in AI-based recommendation systems demonstrates that combining aptitude assessments with interest analysis significantly improves the accuracy of career suggestions. Authors such as Sharma and Singh (2021) show that intelligent recommendation engines can effectively map student profiles to suitable career paths. Despite their effectiveness, these systems are often not localized and lack integration with government educational institutions and public scholarship databases.

Several studies have analyzed digital career counseling platforms that provide online guidance and career information. While these platforms improve accessibility, most focus on private colleges and generalized career trends. Patel et al. (2020) highlight that such systems often neglect rural users, government colleges, and affordability factors, limiting their usefulness for economically disadvantaged students.

From the reviewed literature, it is evident that although significant progress has been made in digital and AI-driven career guidance, there remains a clear research gap. There is a lack of a unified, personalized, and localized platform that integrates aptitude assessment, career pathway mapping, and government college information. The proposed One-Stop Personalized Career & Education Advisor addresses this gap by offering an inclusive, data-driven solution tailored to the Indian education ecosystem.

III. PROBLEM STATEMENT

Choosing an appropriate academic stream, course, and career path after secondary education is a complex and critical decision for students. In India, this challenge is particularly severe for students from rural and semi-urban backgrounds, where access to professional career counseling and reliable educational information is limited. Many students are required to make career decisions without adequate guidance, leading to confusion, poor academic choices, and long-term career dissatisfaction.

A major problem faced by students is the lack of personalized career guidance at the school level. Existing counseling mechanisms are either insufficient or unavailable, resulting in students relying on parents, peers, or incomplete online information. This often causes a mismatch between students' aptitude, interests, and chosen academic streams, which contributes to low academic performance and increased dropout rates in higher education.

Another significant issue is the absence of a centralized and trustworthy information source for higher education opportunities, particularly government colleges. Information regarding available courses, fee structures, admission procedures, accreditation, facilities, and scholarships is scattered across multiple websites and offline sources. This fragmentation makes it difficult for students to compare options and identify affordable, quality education opportunities.

Although several online career guidance platforms exist, most provide generic recommendations that do not account for individual differences in aptitude and interests. Many platforms focus primarily on private institutions and commercial courses, often ignoring government colleges and public scholarship schemes. As a result, economically disadvantaged students are unable to fully benefit from these systems.

Additionally, students often lack a clear understanding of long-term career pathways. They are unaware of how subject choices lead to specific degrees, job roles, and competitive or government examinations. The absence of a structured roadmap creates uncertainty and discourages informed decision-making, causing students to change courses frequently or abandon education altogether.

IV. EXISTING SYSTEM

In the current scenario, students seeking career and educational guidance primarily rely on traditional methods and available online platforms. Traditional methods include school-based counseling, mentorship programs, and career fairs. While these methods provide some level of guidance, they are often limited in scope, reach, and personalization. Most schools, especially in rural or semi-urban areas, lack trained career counselors, leading to inconsistent advice. The guidance provided is frequently based on general recommendations rather than the student's individual aptitude, interests, or local opportunities.

Online platforms exist that offer career guidance, aptitude tests, and information about courses and colleges. These platforms typically provide generalized suggestions and focus mainly on popular private institutions or globally recognized courses. They usually do not consider student-specific factors such as personal interests, aptitude, or socio-economic conditions. Moreover, information about government colleges, scholarships, and local educational opportunities is often fragmented or outdated, making it difficult for students to make fully informed decisions.

Existing systems also lack integration of multiple functions. For example, aptitude assessment, career path mapping, college information, and scholarship opportunities are handled separately. Students may need to use multiple websites

or consult various offline sources to gather all relevant information. This disjointed approach is time-consuming and confusing, particularly for students who are not digitally literate or who have limited internet access.

Furthermore, long-term career mapping is rarely included in existing systems. Students often receive advice about immediate educational options, such as which course to choose after 12th grade, without a clear connection to future career paths, job opportunities, or competitive exams. This lack of structured roadmap creates uncertainty and reduces confidence in decision-making.

These platforms typically provide generalized suggestions and focus mainly on popular private institutions or globally recognized courses. They usually do not consider student-specific factors such as personal interests, aptitude, or socio-economic conditions. Moreover, information about government colleges, scholarships, and local educational opportunities is often fragmented or outdated, making it difficult for students to make fully informed decisions.
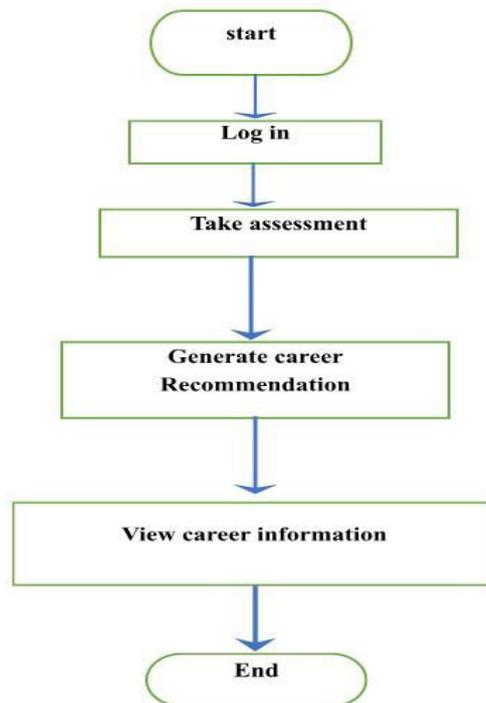
V. PROPOSED SYSTEM

The proposed system, One-Stop Personalized Career & Education Advisor, is an integrated digital platform designed to provide personalized, data-driven academic and career guidance to students after secondary education. The system aims to overcome the limitations of traditional counseling and existing online platforms by combining aptitude assessment, interest analysis, career pathway mapping, and localized educational information into a single, user-friendly solution.

The system begins with a student registration and profile creation module, where users provide basic academic details such as qualification, subjects studied, academic performance, and geographical location. This information forms the foundation for personalized analysis. Unlike existing systems, the proposed solution considers both academic background and regional factors to ensure realistic and practical recommendations.

A key component of the proposed system is the aptitude and interest assessment module. Students are required to complete structured quizzes designed to evaluate logical reasoning, analytical ability, creativity, numerical skills, and personal interests. The assessment results are automatically analyzed to identify the student's strengths and preferences, enabling accurate profiling. This approach ensures that guidance is tailored to individual potential rather than generalized trends.

Based on the analyzed profile, the intelligent recommendation engine generates personalized suggestions for suitable academic streams, degree programs, vocational courses, and skill-based certifications. The engine uses rule-based logic

and AI-driven techniques to map student profiles to relevant career options while considering future scope, employability, and educational requirements.

The proposed system also includes a career pathway mapping module, which presents a structured roadmap showing the progression from current education to higher studies, job roles, and competitive or government examinations. This long-term perspective helps students understand how their present choices influence future career opportunities, thereby reducing uncertainty and incorrect decision-making.

An important feature of the system is the government college and scholarship information module. The platform provides centralized, verified information about nearby government institutions, including courses offered, fee structures, accreditation, facilities, admission procedures, and available scholarships. This ensures transparency and improves awareness of affordable education options, especially for economically disadvantaged students.

Finally, the system offers a personalized dashboard and alert mechanism, where students can track recommended options, save preferred colleges, receive admission and exam alerts, and monitor deadlines. The platform is designed for both web and mobile access with a simplified interface and multilingual support, ensuring accessibility and inclusiveness for students from diverse backgrounds. Overall, the proposed system delivers a comprehensive,

 personalized, and scalable solution that bridges the gap between students and reliable career guidance. The system begins with a student registration and profile creation module, where users provide basic academic details such as qualification, subjects studied, academic performance, and geographical location. This information forms the foundation for personalized analysis. Unlike existing systems, the proposed solution considers both academic background and regional factors to ensure realistic and practical recommendations.

BLOCK DIAGRAM

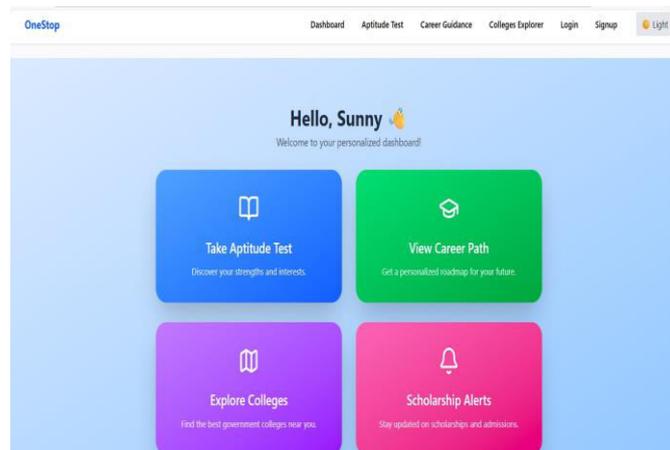ONE STOP PERSONALIZED CAREER AND

EDUCATIONAL ADVISOR
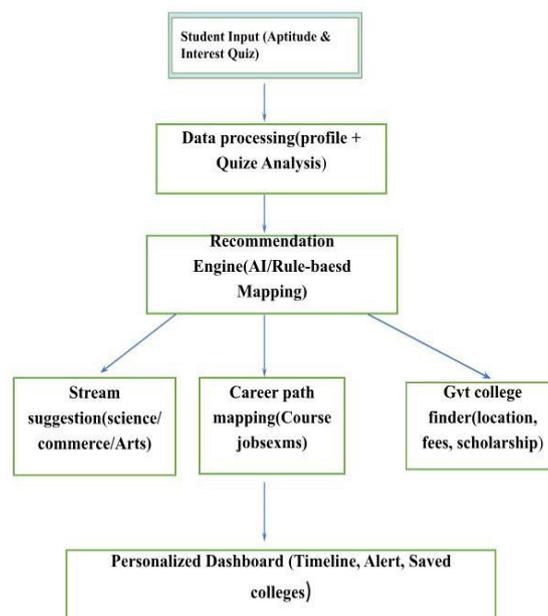
A One-Stop Personalized Career and Educational Advisor is a system designed to help individuals make informed decisions about their career and education by providing customized guidance. The process begins with the user, who enters personal details such as educational background, interests, skills, goals, and responses to aptitude or personality tests through a web or mobile interface. This information is collected by the data collection module and stored in a database or knowledge base that contains details about various careers, courses, colleges, skill requirements, and job

market trends. The data processing and analysis module acts as the core of the system, where the user's profile is analyzed and matched with suitable career and educational options using predefined rules or AI-based techniques. Based on this analysis, the recommendation engine generates personalized career paths, course suggestions, and skill development advice. These recommendations are then explained through the guidance and counseling module, which provides career roadmaps, required qualifications, and future growth opportunities. Finally, the user interface displays the results in a clear and understandable format, and a feedback mechanism may be used to refine and improve future recommendations.

VI. RESULT

Results of a one-stop personalized career and educational advisor reflect a comprehensive and integrated understanding of an individual's abilities, interests, personality, and long-term goals. Such results typically combine assessments of skills, academic strengths, personal preferences, and market trends to provide clear and actionable guidance. Instead of offering generic advice, the system identifies suitable career paths aligned with the individual's aptitude and values, recommends relevant educational courses or degree programs, and highlights required skills or certifications for future growth. It also helps the individual understand gaps between their current profile and desired career outcomes, suggesting step-by-step learning pathways, internships, or training opportunities to bridge those gaps. Overall, the results empower users to make informed decisions, reduce confusion and uncertainty, save time and resources, and confidently plan their academic and professional journey through a single, centralized, and personalized guidance platform.

VII. CONCLUSION

A one-stop personalized career and educational advisor serves as a comprehensive, lifelong guidance system that bridges the gap between an individual's aspirations and the rapidly changing world of education and work. By integrating personal interests, skills, values, academic background, and labor-market trends, it provides tailored recommendations rather than generic advice. Such an advisor empowers individuals to make informed decisions at every stage—choosing the right subjects, courses, certifications, institutions, and career

pathways—while continuously adapting guidance as goals evolve or industries change. It reduces confusion, saves time and resources, and increases confidence by offering clarity, structured planning, and actionable insights. Ultimately, a one-stop personalized advisor promotes informed choice, equitable access to opportunities, and long-term career satisfaction by aligning education with real-world demands and personal growth, making it an essential tool for success in today's dynamic and competitive environment.

REFRENCES

1. Vani, S., Malathi, P., Ramya, V. J., Sriman, B., Saravanan, M., & Srivel, R. (2024). An efficient black widow optimization-based faster R-CNN for classification of COVID-19 from CT images. Multimedia Systems, 30(2), 108.

2. Kumar, A. S., Saravanan, M., Joshna, N., & Seshadri, G. (2019). Contingency analysis of fault and minimization of power system outage using fuzzy controller. International Journal of Innovative Technology and Exploring Engineering, 9(1), 4111-4115.

3. David, A. (2020). Air pollution control monitoring & delivery rate escalated by efficient use of markov process in manet networks: to measure quality of service parameters. Test Engineering & Management, The Mattingley Publishing Co., Inc. ISSN, 0193-4120.

4. Saravanan, M., Kumar, A. S., Devasaran, R., Seshadri, G., & Sivaganesan, S. (2019). Performance analysis of very sparse matrix converter using indirect space vector modulation. Intern. Jou. of Inn. Techn. and Expl. Eng, 9(1), 4756-4762.

5. Saravanan, M., & Sivakumaran, T. S. (2016). Three phase dual input direct matrix converter for integration of two AC sources from wind turbines. Circuits Syst., 7, 3807-3817.

6. Dharnasi, P. (2025). A Multi-Domain AI Framework for Enterprise Agility Integrating Retail Analytics with SAP Modernization and Secure Financial Intelligence. International Journal of Humanities and Information Technology, 7(4), 61-66.

7. Amitha, K., Ram Manohar Reddy, M., Yashwanth, K., Shylaja, K., Rahul Reddy, M., Srinu, B., & Dharnasi, P. (2026). AI empowered security monitoring system with the help of deployed ML models. International Journal of Computer Technology and Electronics Communication (IJCTEC), 9(1), 69–73.

8. Gogada, S., Gopichand, K., Reddy, K. C., Keerthana, G., Nithish Kumar, M., Shivalingam, N., & Dharnasi, P. (2026). Cloud computing/deep learning customer churn prediction for SaaS platforms. International Journal of Computer Technology and Electronics Communication (IJCTEC), 9(1), 74–78.

9. Akula, A., Budha, G., Bingi, G., Chanda, U., Borra, A. R., Yadav, D. B., & Saravanan, M. (2026). Emotion recognition from facial expressions using CNNs. International Journal of Engineering & Extended Technologies Research (IJEETR), 8(1), 120–125.

10. Varshini, M., Chandrapathi, M., Manirekha, G., Balaraju, M., Afraz, M., Sarvanan, M., & Dharnasi, P. (2026). ATM access using card scanner and face recognition with AIML. International Journal of Research Publications in Engineering, Technology and Management (IJRPETM), 9(1), 113–118.

11. Feroz, A., Pranay, D., Srikar Sai Raj, B., Harsha Vardhan, C., Rohith Raja, B., Nirmala, B., & Dharnasi, P. (2026). Blockchain and machine learning combined secured voting system. International Journal of Research Publications in Engineering, Technology and Management (IJRPETM), 9(1), 119–124.

12. Tirupalli, S. R., Munduri, S. K., Sangaraju, V., Yeruva, S. D., Saravanan, M., & Dharnasi, P. (2026). Blockchain integration with cloud storage for secure and transparent file management. International Journal of Computer Technology and Electronics Communication (IJCTEC), 9(1), 79–86.

13. Chandu, S., Goutham, T., Badrinath, P., Prashanth Reddy, V., Yadav, D. B., & Dharnas, P. (2026). Biometric authentication using IoT devices powered by deep learning and encrypted verification. International Journal of Computer Technology and Electronics Communication (IJCTEC), 9(1), 87–92.

14. Singh, K., Amrutha Varshini, G., Karthikeya, M., Manideep, G., Sarvanan, M., & Dharnasi, P. (2026). Automatic brand logo detection using deep learning. International Journal of Engineering & Extended Technologies Research (IJEETR), 8(1), 126–130.

15. Keerthana, L. M., Mounika, G., Abhinaya, K., Zakeer, M., Chowdary, K. M., Bhagyaraj, K., & Prasad, D. (2026). Floods and landslide prediction using machine learning. International Journal of Research Publications in Engineering, Technology and Management (IJRPETM), 9(1), 125–129.

16. Dadigari, M., Appikatla, S., Gandhala, Y., Bollu, S., Macha, K., & Saravanan, M. (2026). Bitcoin price prediction with ML through blockchain technology. International Journal of Research Publications in Engineering, Technology and Management (IJRPETM), 9(1), 130–136.

17. Chinthala, S., Erla, P. K., Dongari, A., Bantu, A., Chityala, S. G., & Saravanan, M. S. (2026). Food recognition and calorie estimation using machine learning. International Journal of Engineering & Extended Technologies Research (IJEETR), 8(2), 480–488.

18. Chinthamalla, N., Anumula, G., Banja, N., Chelluboina, L., Dangeti, S., Jitendra, A., & Saravanan, M. (2026). IoT-based vehicle tracking with accident alert system. International Journal of Research Publications in Engineering, Technology and Management (IJRPETM), 9(2), 486–494.

19. Nagamani, K., Laxmikala, K., Sreeram, K., Eshwar, K., Jitendra, A., & Dharnasi, P. (2026). Disaster management and earthquake prediction system using machine learning. International Journal of Research Publications in Engineering, Technology and Management (IJRPETM), 9(2), 495–499.

20. Prasad, E. D., Sahithi, B., Jyoshnavi, C., Swathi, D., Arun Kumar, T., Dharnasi, P., & Saravanan, M. (2026). A technology driven – solution for food and hunger management. International Journal of Computer Technology and Electronics Communication (IJCTEC), 9(2), 440–448.

21. Rakesh, V., Vinay Kumar, M., Bharath Patel, P., Varun Raj, B., Saravanan, M., & Dharnasi, P. (2026). IoT-based gas leakage detector with SMS alert. International Journal of Computer Technology and Electronics Communication (IJCTEC), 9(2), 449–456.

22. Chanamalla, B., Murali, V. N., Suresh, B., Deepak, M. S., Zakriya, M., Yadav, D. B., & Saravanan, M. (2026). AI-driven multi-agent shopping system through e-commerce system. International Journal of Computer Technology and Electronics Communication (IJCTEC), 9(2), 463–470.

23. Bhagyasri, Y., Bhargavi, P., Akshaya, T., Pavansai, S., Dharnasi, P., & Jitendra, A. (2026). IoT based security & smart home intrusion prevention system. International Journal of Computer Technology and Electronics Communication (IJCTEC), 9(2), 457–462.

24. Thotla, S. B., Vyshnavi, S., Anusha, P., Vinisha, R., Mahesh, S., Yadav, D. B., & Dharnasi, P. (2026). Traffic congestion prediction using real time data by using deep learning techniques. , 8(2), 489–494.

25. Rupika, M., Nandini, G., Mythri, M., Vasu, K., Abhiram, M., Shivalingam, N., & Dharnasi, P. (2026). Electronic gadget addiction prediction using machine learning. International Journal of Research Publications in Engineering, Technology and Management (IJRPETM), 9(2), 500–505.

26. Akshaya, N., Balaji, Y., Chennarao, J., Sathwik, P., & Dharnasi, P. (2026). Diabetic retinopathy diagnosis with deep learning. International Journal of Research Publications in Engineering, Technology and Management (IJRPETM), 9(2), 506–512.

27. Pavan Kumar, T., Abhishek Goud, T., Yogesh, S., Manikanta, V., Dinesh, P., Srinu, B., & Dharnasi, P. (2026). Smart attendance system using facial recognition for staff using AI/ML. International Journal of Research Publications in Engineering, Technology and Management (IJRPETM), 9(2), 513–519. https://doi.org/10.15662/IJRPETM.2026.0902005

28. Reddy, V. N., Rao, P. H. S., Singh, N. S., Kumar, V. S. S., Reddy, Y. B., & Dharnasi, P. (2026). Face recognition using criminal identification system. International Journal of Research Publications in Engineering, Technology and Management (IJRPETM), 9(2), 520–527.

29. Rachana, P., Kalyan, P. P., Kumar, T. S., Reddy, P. M., Rohan, P., Saravanan, M., & Dharnasi, P. (2026). Secure chat application with end-to-end encryption using deep learning. International Journal of Computer Technology and Electronics Communication (IJCTEC), 9(2), 472–478.

30. Krishna, G., Rajesh, B., Dinesh, B., Sravani, B., Rajesh, G., Dharnasi, P., & Sarvanan, M. (2026). Smart agriculture system using IoT with help of AI-techniques. International Journal of Computer Technology and Electronics Communication, 9(2), 479–487.

31. Reddy, N. H. V., Reddy, N. T., Bharath, M., Hemanth, N., Dharnasi, D. P., Nirmala, B., & Jitendra, A. (2026). AI based learning assistant using machine learning. International Journal of Engineering & Extended Technologies Research, 8(2), 495–504.

32. Vangara, N., Bhargavi, P., Chandu, R., Bhavani, V., Yadav, D. B., & Dharnasi, P. (2026). Machine learning based intrusion detection system using supervised and unsupervised learning. International Journal of Engineering & Extended Technologies Research (IJEETR), 8(2), 505–511.

33. Yadamakanti, S., Mahesh, Y., Rathnam, S. A., Praveen, V., Jitendra, A., & Dharnasi, P. (2026). Unified Payments Interface fraud detection using machine learning. International Journal of Computer Technology and Electronics Communication (IJCTEC), 9(2), 488–497.

34. Basha, S. A., Krishna, V. S. B., Shanker, S. S., Sravya, R., Shivalingam, N., & Dharnasi, P. (2026). AI-powered price prediction for agriculture markets. International Journal of Engineering & Extended Technologies Research (IJEETR), 8(2), 512–515.

35. Sanjay, P., Vardhan, Y. H., Raja, S. Y., Krishna, V. M., Nirmala, B., & Dharnasi, P. (2026). Disaster management and earthquake tsunami prediction system using machine learning and deep learning. International Journal of Engineering & Extended Technologies Research (IJEETR), 8(2), 516–522.

36. Varsha, P., Chary, P. K., Sathvik, P., Varma, N. V., Rahul, S., Saravanam, M., & Dharnasi, P. (2026). IoT-based fire alarm and location tracking system. International Journal of Research Publications in Engineering, Technology and Management (IJRPETM), 9(2), 528–532.

37. Priya, B. A., Gayathri, D., Maheshwari, B., Nikhitha, C., Sravanam, D., Yadav, D. B., & Saravanan, M. (2026). Fake news detection using natural language processing. International Journal of Computer Technology and Electronics Communication (IJCTEC), 9(2), 498–505.

38. Swathi, B., Aravind, A., Sharath Chandra, A., Sunethra, B., Bhanu Reddy, C., Jitendra, A., & Sarvanan, M. (2026). Deep learning enable smart trafficking management system. International Journal of Research Publications in Engineering, Technology and Management, 9(2), 533–539.

39. Peravali, S., Yelighti, H. V., Shaganti, Y. R., Velamati, M. K., Nirmala, B., Saravanan, M., & Dharnasi, P. (2026). Disaster management and earthquake/tsunami prediction system using machine learning and deep learning. International Journal of Research Publications in Engineering, Technology and Management, 9(2), 540–548.

40. Prasad, M. H. A., Goutham, G., Nithish, J., Hardhik, G., Rahman, M. A., Saravanan, M., & Dharnasi, P. (2026). Deepfake face detection using machine learning. International Journal of Engineering & Extended Technologies Research (IJEETR), 8(2), 523–548.