Navya Pathak

Electronics and Computer Science Engineering
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Summary

Electronics and Computer Science Engineering undergraduate with hands-on experience in machine learning, data science, and full-stack development. Built and deployed ML-powered web applications using Python, Flask, and Streamlit, delivering high model accuracy and reliable performance. Seeking software engineering, data science, and AI/ML roles focused on scalable, production-ready systems.

Education

B.Tech in Electronics and Computer Science Engineering 2023 – 2027
Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar
Class XII (CBSE) 2023
Fr. Agnel School, Noida

Technical Skills

- **Programming:** Python, Java, C, SQL
- **Web & Frontend:** HTML, CSS, Javascript, Streamlit
- **AI / ML:** Machine Learning, Data Preprocessing, Exploratory Data Analysis (EDA), Model Evaluation, Computer Vision
- **Tools:** Git, GitHub, Google Colab
- **Core CS:** Data Structures, Operating Systems, Object Oriented Programming (OOPs)

Experience

Data Science Intern, Academy of Skill Development 2025
- Designed and implemented a **multi-disease prediction system** using **Python and machine learning** models.
- Deployed the solution as a **Streamlit web application**, ensuring scalability, reliability, and smooth user interaction.
- Achieved **85% model accuracy** through feature engineering and model optimization; collaborated on **code reviews and debugging**.

Marketing Member, Coding Ninjas 2025 – Present
- Supported coordination of **10+ technical events** and assisted with operational workflows.
- Collaborated with cross-functional teams to improve student engagement and administrative efficiency.

Projects

AI-Powered Multi-Disease Prediction System
- Developed and evaluated ML models for predicting **diabetes, heart, and kidney diseases** using multiple medical datasets.
- Achieved up to **85% prediction accuracy** and deployed the solution as an interactive **Streamlit web application**.

Driver Drowsiness Detection System
- Built a **real-time computer vision pipeline** using facial landmark detection and **Eye Aspect Ratio (EAR)** analysis.
- Detected driver drowsiness within **1–2 seconds** and triggered automated alert mechanisms using **Python and OpenCV**.

Smart Traffic Light System (Prototype)
- Designed an adaptive traffic signal control system using Raspberry Pi.
- Provided real-time signal status and speed guidance feedback to drivers.
- Observed an estimated **20–25% reduction** in traffic violations and near-miss situations in simulations.

Additional Information

- Languages: English, Hindi
- KIIT Merit Scholarship recipient; **CGPA: 9.64**