

RUCHITHA D

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AI & Data Science / Machine Learning / Web Development / Data Analytics



PROFESSIONAL SUMMARY

A dedicated and analytical final-year B.E. student in Artificial Intelligence and Data Science, equipped with a strong foundation in machine learning, data modeling, and full-stack web development. Proven ability to design, develop, and deploy end-to-end projects including predictive models, data-driven web applications, and automation tools. Adept at leveraging technologies like Python, TensorFlow, SQL, and Flask to solve complex problems. Seeking to apply technical expertise and innovative problem-solving skills to a challenging role in AI, Data Science, or Software Development.

CORE COMPETENCIES

Programming Languages: Python, C, SQL, JavaScript

AI & Machine Learning: TensorFlow, PyTorch, Scikit-learn, OpenCV, Neural Networks, CNN, Data Preprocessing, Feature Engineering

Web Development: HTML, CSS, Flask, FastAPI, RESTful APIs, Firebase, Git/GitHub

Databases & Tools: MySQL, MongoDB, Pandas, NumPy, Power BI, Google Colab

Concepts & Methodologies: Data Structures, Algorithms, Data Visualization, Statistical Analysis, Agile Methodology, Version Control

INTERNSHIP EXPERIENCE

AI Integration Intern | TechnoFly Solutions, Bengaluru

(Aug 2025 – Oct 2025)

- Integrated AI/ML models into existing web-based systems, enhancing data processing efficiency by approximately 15%.
- Optimized front-end and back-end synchronization to support over 100+ concurrent users without performance degradation.
- Gained hands-on experience in the end-to-end lifecycle of AI product integration in a live environment.

Web Development Intern | Smart Learn EdTech

(Mar 2025 – May 2025)

- Developed and deployed scalable RESTful APIs using FastAPI, contributing to a 20% improvement in application load time.
- Collaborated in a 5-member Agile team to deliver web modules, ensuring timely completion of sprint goals.
- Implemented cloud integration strategies for improved application deployment and accessibility.

ACADEMIC PROJECTS

Campus Utility Service (Flask, Firebase, JavaScript)

- Led a 4-member team to design and develop a multi-module campus management system featuring real-time bus tracking, canteen automation, and faculty coordination portals.
- Achievement: Secured 1st Place in the Department Hackathon for innovation and practical user-centric design.

Expense Tracker Application (Flutter, FastAPI, MySQL)

- Engineered a full-stack financial management platform with user authentication, budget analytics, and interactive data visualization dashboards.
- Focused on secure data handling and providing insightful spending patterns to users.

Face Recognition System (Python, OpenCV, Haar Cascades)

- Implemented a real-time face detection and recognition model, improving accuracy through image preprocessing techniques and parameter tuning.

Live Bus Tracking System (Python, Google Maps API, Firebase)

- Created a GPS-based tracking system that displays live bus locations on an interactive map, providing real-time updates to users.

E-Commerce Shopping Cart (HTML, CSS, JavaScript, MySQL)

- Built a dynamic e-commerce portal with comprehensive cart management, user session handling, and order tracking functionalities.

EDUCATION

B.E. in Artificial Intelligence and Data Science

Navkis College of Engineering, Visvesvaraya Technological University (VTU)

(2022 – 2026)

- CGPA: 8.83 / 10

CERTIFICATIONS & TRAININGS

- NPTEL: Problem Solving in C, Python for Data Science (Distinction), Data Structures and Algorithms, Data Base Management System, Introduction To Internet Of Things
- Infosys Springboard: Intro to Data Science, Math for DS & ML
- EXCELR: Full Stack Development, Git & GitHub
- Workshops: Power BI, ChatGPT & AI Tools, Industrial AI (AIROBOSOFT)

ACHIEVEMENTS

- 1st Place – Department Hackathon (Campus Utility Service), Aug 2025
- Top 5 Finalist – Infothon 4.0 (Indian Sign Language Translator), Feb 2025
- Participated in 5+ Inter-College Hackathons including PES University and Canara - Mangaluru

PERSONAL DETAILS

Languages: English, Kannada