Rashi Dubey

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Education

VIT Bhopal University	Bhopal, Madhya Pradesh
BTech	Expected 2026

Major in Computer Science; Minors in Artificial Intelligence and Machine Learning
Cumulative GPA: 8.72/10

Technical Skills

Data Structures & Algorithms (DSA) | *Coding Languages:* Java, C++, Python | *Python Frameworks and Libraries:* Pandas, Tensorflow, Scikit-learn, NumPy, Matplotlib | *Deep Learning:* CNN, RNN | *JavaScript Frameworks:* Node.js, React.js, Next.js | *Others:* Git, GitHub, SQL

Experience

Tuleip AI Solutions	Indore, Madhya Pradesh
Software Developer Engineer (SDE) Intern (Remote)	January 2025 – April 2025

- Designed interactive and responsive UI/UX prototypes in Figma, resulting in a 20% improvement in usability and consistency.
- Developed full-stack features using ReactJS, Next.js, and TailwindCSS for production-grade web applications, leading to a 15% increase in user engagement.
- Integrated AI workflows via n8n.io and RAG-based LLM pipelines for real-time data retrieval and content generation, enhancing data processing efficiency by 25%.
- Also worked on the Supabase vector table for storing extracted data for the RAG model.
- Collaborated with cross-functional teams to align design, frontend, and AI module integration.
- Built reusable components and optimized API handling, improving performance and maintainability.
- Led end-to-end feature development including sprint planning, implementation, and testing.

Projects

Deepfake Detection	*Deep Learning*	January 2024 – April 2024

A deep learning model using ResNet-50 to detect deepfakes from video datasets with 80% accuracy.
- Built a deepfake classification model using ResNet-50 CNN architecture processing over 10,000 video frames.
- Processed video data from CelebDF and DFDC datasets to detect fake content, achieving an 80% accuracy rate in binary classification (real vs. fake).
- Worked in a 5-member team using Python Notebooks for collaborative development, contributing to 25% of the codebase.
- *Technical Stack:* Python, TensorFlow, OpenCV, ResNet-50, Jupyter

Flight Price Prediction System	*Machine Learning*	December 2023

A regression-based ML model that predicts flight prices using key travel features with 95% accuracy.
- Constructed a price prediction model using Supervised Regression on 500+ flight records.
- Features included departure time, stops, and locations to predict ticket price.
- The prediction accuracy was 95% on test data.
- *Technical Stack:* Python, Pandas, Scikit-learn, Matplotlib, Jupyter

Plant Leaf Disease Detection	August 2023 – November 2023

A multi-model image classification project detecting apple leaf diseases using CNN, SVM, and Random Forest.
- Collaborated with 4 teammates to classify plant leaf diseases from 150 apple leaf images.
- Trained SVM, Random Forest, and CNN models on 150 apple leaf images, leading to a 90% accuracy rate.
- Authored a review paper on common plant diseases, contributing to a 15-page document.
- *Technical Stack:* Python, OpenCV, Scikit-learn, TensorFlow, Jupyter

MicroTaskVault	*Machine Learning, GenAI, Full Stack*	September 2024 – April 2025

A Web3 SaaS platform enabling crypto-based freelance microtasks with full-stack integration using Next.js and Supabase.
- Led development in an 8-member team building a Web3 SaaS platform for freelance tasks like Dataset Labelling and Thumbnail Rating.
- The frontend was made with Next.js; used Supabase for backend, auth, and database management.
- Integrated task management, labeling interface, and submission validation logic.
- *Technical Stack:* Next.js, Supabase, JavaScript, Node.js, Crypto Wallet APIs

Extracurricular

**AI Club, VIT Bhopal	Core Member**	May 2023 – May 2024

- Core member of the editorial team, contributed in an article for *Tech DAIgest Magazine*, a monthly publication for the students of VIT Bhopal University

**Health-O-Tech Club, VIT Bhopal	Core Member**	April 2023 – April 2024

- Core member of the event management team and helped in managing a quiz competition organized by the club which had a participation of 120 participants. Also organized a hackathon, "Genesis X" that received a participation of 50 participants.

Additional

Languages: Fluent in English, Hindi | Conversational in Bengali