

# Bilal Rukundi

AI & ML Student | Machine Learning Intern

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GitHub: [github.com/Wayn-Git](https://github.com/Wayn-Git) | Portfolio: [bilal-portfolio-re.vercel.app](https://bilal-portfolio-re.vercel.app)

## Summary

AI and Machine Learning student with hands-on experience in NLP, EDA, and ML model development. Skilled in Python, NumPy, Pandas, and scikit-learn with projects spanning fraud detection, image classification, and AI-powered chatbots. Achieved high accuracy and improved accessibility of datasets through innovative solutions. Passionate about applying machine learning to solve real-world problems and advancing toward a career in AI-driven software engineering.

## Experience

### Bharatiya Antariksh Hackathon 2025

AI Chatbot Engineer

- Developed an AI-powered chatbot using Botpress to simplify access to ISRO's geospatial satellite data through natural language queries (English & Hindi).
- Built a knowledge graph from static/dynamic web content, reducing data discovery time by ~70% compared to manual navigation.
- Enabled accessibility of complex satellite datasets for non-technical users including students, researchers, and government officials.

### DY Patil Machine Learning Hackathon

ML Developer

Pune

- Performed Exploratory Data Analysis (EDA) on 50k+ dataset entries using Python, Pandas, NumPy, and Seaborn.
- Automated preprocessing tasks such as missing value handling, outlier detection, and data visualization using Pandas, Matplotlib, and Seaborn.

### MIT 24-Hour Hackathon (Upcoming)

- Selected for participation in an intensive 24-hour hackathon focused on AI/ML solutions.
- Aiming to collaborate with peers, enhance rapid prototyping skills, and deliver impactful solutions under time constraints.

## Education

### Rajarambabu Institute of Technology

Artificial Intelligence and Machine Learning

(2024 – Present)

Diploma

- GPA: 9.12 | Percentage: 86.5%
- Relevant Coursework: Machine Learning, Data Science, DBMS, Statistics, NLP

## Projects

### Machine Learning From Scratch (In Progress)

<https://github.com/Wayn-Git/MLFromScratch>

- Developing ML algorithms (Linear Regression, Logistic Regression, Decision Trees, KNN) from first principles using only Python, NumPy, and math libraries.
- Focused on gradient descent, loss functions, and optimization to strengthen theoretical and practical ML understanding.

### Cat vs Dog Image Classifier

<https://github.com/Wayn-Git/CatvsDog>

- Built an image classifier using transfer learning with ResNet50, achieving **95%+ accuracy**.
- Integrated model into a Streamlit UI for easy interaction, enabling non-technical users to classify images seamlessly.
- Prioritized accessibility, error handling, and clean UI design.

### FraudDetection

<https://github.com/Wayn-Git/FraudDetection>

- Engineered a fraud detection system on financial transaction data with <1% fraud cases.
- Balanced classes using SMOTE and advanced feature engineering (temporal signals, transaction ratios).
- Implemented Random Forest classifier, improving fraud detection recall by **30%** and evaluated using AUC-ROC, AUC-PR, and F1-score.

## Leadership & Activities

### AI & ML Club (IntellixAI)

Student Coordinator

<https://intellixai-ten.vercel.app/>

- Led initiatives to support peers in AI/ML projects, guiding students through ideation, development, and deployment.
- Organized knowledge-sharing sessions, curated learning resources, and mentored members on tools such as Python, scikit-learn, and NLP frameworks.
- Built a collaborative learning community, helping **30+ students** gain hands-on project experience.

### Magazine Club

Student Coordinator

- Designed and reviewed creative content and layouts for the college magazine, ensuring quality and consistency in presentation.
- Collaborated with writers, editors, and designers to publish editions showcasing student achievements and campus events.
- Streamlined design workflow by introducing modern tools, improving efficiency and maintaining brand consistency.

## Skills

Python, Java, JavaScript, C, SQL, HTML, CSS; NumPy, Pandas, scikit-learn, TensorFlow, PyTorch, Matplotlib, Seaborn, ydata-profiling; React.js, Tailwind, Gradio, Streamlit, Botpress; Git/GitHub, VS Code, Google Colab, Jupyter Notebook, MySQL, Docker

## Certifications

### Introduction to Artificial Intelligence – Coursera (2024)

### Machine Learning – Coursera (2025)

### Prompt Engineering Fundamentals – Simplilearn (2024)