

# ROSHAN VARGHESE

AI/ML ENGINEER | PYTHON DEVELOPER | DATA ANALYTICS

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Location: Abu Hail, Dubai, UAE (Visit Visa, Immediate availability)

GitHub: github.com/Shadow-Vanguard • Portfolio: portfolio-roshan-vargheses-projects.vercel.app

## SUMMARY

Results-driven AI/ML Engineer with hands-on experience in Machine Learning and Data Analytics. Skilled in building and deploying ML models, developing data-driven dashboards, and automating workflows using Python, SQL, JavaScript, FastAPI, and cloud platforms. Proven ability to translate complex datasets into actionable business insights.

## EXPERIENCE

### Data Science & Analytics Intern

Zidio Development, Bengaluru, India | July 2025 – October 2025

- Built and optimized machine learning models on datasets with 20,000+ records, achieving 92% model accuracy.
- Automated data analysis workflows using Python and SQL, reducing analysis time by 30%.
- Developed and deployed FastAPI-based ML APIs, reducing manual processing effort by 25%.
- Designed interactive Power BI dashboards and SQL-based reports to support business decision-making.
- Collaborated with cross-functional teams to deliver data-driven insights aligned with business objectives.

## PROJECTS

### SnapSense AI | Python, OpenAI API, TensorFlow, PyTorch, CNN, NLP, Google Calendar API | Sep 2025

- Built an AI-powered screenshot-based reminder system achieving 98% classification accuracy.
- Extracted, classified, and summarized actionable data using CNN and NLP techniques.
- Systematized task prioritization with Telegram and WhatsApp integrations and Google Calendar API.
- Presented the solution at the AI Genesis Hackathon.

### Road Guardian | Python, FastAPI, OpenAI API | Aug 2024 - Mar 2025

- Developed a Django-based roadside assistance platform with real-time tracking and analytics dashboards.
- Implemented CNN and NLP models to validate incident images and detect AI-generated content.
- Applied reinforcement learning-based route optimization, reducing service allocation time by 25%.
- Integrated ML models via REST APIs for real-time predictions and alerts.

## EDUCATION

### Master of Computer Applications (MCA) | Sep 2023 - Jul 2025

- Amal Jyothi College of Engineering (Autonomous), Kanjirappally

## TECHNICAL SKILLS & TOOLS

- Programming and Databases:** Python, JavaScript, C, C++, SQL, MySQL
- Analytics and BI Tools:** Power BI, Excel, Jupyter Notebook
- Machine Learning and AI:** Deep Learning, Natural Language Processing, Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow
- Cloud & DevOps:** AWS, Microsoft Azure, Google Cloud Platform (GCP), Git
- Reporting and Data Operations:** SQL-based reporting, KPI dashboard development, ETL pipelines, data preprocessing
- Frameworks & APIs:** Django, React, FastAPI, REST APIs

## CERTIFICATIONS

- Power BI – Office Master (2025)
- Data Science & Analytics – Zidio Development (2025)
- Introduction to AI & Data Science – Infosys Springboard (2024)
- The Joy of Computing Using Python – NPTEL (2024)

## ADDITIONAL INFORMATION

- Awards & Achievements:** AJCE Hackathon – Top 3 Winner, AI Genesis Hackathon – Top Participant; deployed a working AI project organized by LabLab AI, Director's Honours Award
- Workshops & Engagements:** Attended AI Summit Dubai and participated in workshops by NVIDIA and AWS, GenAI Cloud and DevOps International Workshop, Wikimedia Technical Workshop, Wiki Conference Kerala Delegate
- Soft Skills:** Communication, Teamwork, Problem-Solving, Adaptability | **Languages:** English, Hindi, Malayalam