

# PADMANABH S MISHRA

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## PROFESSIONAL SUMMARY

Results-oriented Data Scientist & AI Engineer with expertise in end-to-end Machine Learning pipelines, Computer Vision, and Generative AI. Proven track record in deploying scalable solutions and optimizing model performance. Adept at transforming complex datasets into actionable business insights using Python and MLOps best practices.

## CORE TECHNICAL SKILLS

Languages & DBs: Python, C, C++, SQL, MySQL, MongoDB

Machine Learning: TensorFlow, Keras, PyTorch, Scikit-learn, OpenCV, NLP, Fine-tuning, YOLO

Deployment: AWS, Docker, Kubernetes, CI/CD, MLflow, FastAPI, Flask, RESTful APIs

Tools: Pandas, NumPy, Matplotlib, Seaborn, Tableau, Power BI

## WORK EXPERIENCE

### Nirvazaa (freelance)

Sept 2023 - Sept 2025

#### Data Scientist / ML Engineer

Remote

- Developed and deployed a full-stack ML pipeline using Random Forest for customer segmentation, boosting personalization metrics by 12% and increasing engagement efficiency.
- Engineered a Natural Language Processing (NLP) solution to analyze customer feedback (Sentiment and Topic Modeling), increasing customer satisfaction by 9% via actionable product/service insights.
- Managed MLOps and ensured model scalability by leveraging AWS cloud services, including S3 for massive data storage and SageMaker for containerized model deployment.

### Verizon

July 2022 - Sept 2023

#### Security Engineer

Hyderabad

- Built and deployed a Single Sign-On (SSO) portal serving 5,000+ users, reducing login failures by 35%.
- Developed RESTful APIs, cutting data integration time by 40%.
- Designed AES & RSA-based encryption, increasing security compliance by 30%.
- Optimized MSSQL queries, reducing execution time by 25%.

### Cognizant

Feb 2022 - Aug 2022

#### Programmer Analyst Trainee

Remote

- Designed Tableau & Power BI dashboards, improving reporting efficiency by 50%.
- Automated data cleaning/validation using Python, saving 20+ manual hours/week.

### Groom (IIT Bombay Startup)

May 2021 - Feb 2022

#### Machine Learning Intern

Remote

- Fine-tuned YOLO and RetinaNet models, improving detection accuracy by 18%.
- Optimized training pipelines via hyperparameter tuning, reducing training time by 20%.

## PROJECTS

### End-to-End Student Performance Prediction

- Designed scalable ML pipeline (EDA, feature engineering), improving accuracy by 15%.
- Deployed on AWS using Flask and CI/CD, achieving high availability.

### Driver Drowsiness Detection System

- Built real-time fatigue detection system using Haar Cascade, achieving 92% accuracy.
- Optimized OpenCV pipeline, lowering latency by 25%.

## EDUCATION

### B.Tech - Computer Science and Engineering

2018 - 2022

SRM University, Chennai | CGPA: 8.4/10

## CERTIFICATIONS

- Deep Learning Specialization (DeepLearning.AI)
- Machine Learning Specialization (Stanford/Andrew Ng)
- Python for Everybody - Coursera (University of Michigan)