

# ROHAN VERMA

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## PROFESSIONAL SUMMARY

Software Engineer with 6 years experience in Python, Mathematical Modeling, and Production Systems. Expert in Machine Learning algorithms, Neural Networks, PyTorch, TensorFlow, and Model Optimization. Built automated prediction systems serving 200+ projects. Reduced system performance optimization time by 40%. Seeking AI/ML Engineer role to apply Python expertise, Deep Learning knowledge, and production system experience.

## CORE SKILLS

**Programming Languages:** Python, JavaScript, SQL, Java, Go, R

**Machine Learning:** Machine Learning, Deep Learning, PyTorch, TensorFlow, Neural Networks, CNN, RNN, Transformers, Model Training, Model Optimization, Fine-tuning, Hyperparameter Tuning, Feature Engineering, Supervised Learning, Unsupervised Learning

**Mlops & Deployment:** MLOps, Model Deployment, Production ML Systems, Docker, Kubernetes, CI/CD, Model Monitoring, Model Versioning, MLflow, Airflow, Performance Optimization

**Data & Cloud:** PostgreSQL, MongoDB, AWS, EC2, S3, Lambda, Data Analysis, Statistical Modeling, Time Series Analysis, API Development, Git, Linux

## EXPERIENCE

### Senior Solar System Designer | Orion Digital Systems | Hyderabad, India

2021 - Present

- Developed Machine Learning optimization algorithms using Python for predictive modeling and system configuration. Reduced manual processing time by 85%. Applied mathematical optimization techniques similar to gradient descent and neural network training.
- Built performance prediction models using statistical analysis and pattern recognition algorithms. Served 200+ projects with 95% accuracy. Implemented feature engineering and model validation techniques for production deployment.
- Created real-time monitoring systems with anomaly detection using time-series analysis and pattern recognition. Achieved 40% performance improvement through automated optimization algorithms and data-driven decision making.

### Solar Design Engineer | Bluewave Technologies | Hyderabad, India

2018 - 2021

- Developed data visualization tools using JavaScript and Python for model interpretability and performance analysis. Built dashboards serving 50+ engineers with real-time data processing and statistical insights.
- Built automated validation systems using classification algorithms and pattern recognition. Achieved 92% accuracy in anomaly detection. Implemented feature extraction and model training workflows for production systems.

- Designed API-based data pipelines and integration systems for model deployment and monitoring. Managed production data flows with 99.5% uptime. Experience with MLOps practices and model performance tracking.

## **EDUCATION**

Bachelor of Technology in Computer Science Jawaharlal Nehru Technological University | Hyderabad, India | 2014 - 2018 Coursework: Mathematical Modeling, Algorithms, Data Structures, Statistical Analysis

## **CERTIFICATIONS**

AWS Certified Developer - Associate | Amazon Web Services Oracle Certified Java Programmer | Oracle NABCEP PV Design Specialist | In Progress