

Vikas Prajapati

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Summary

AI/ML Engineer with 2 years of experience in computer vision and NLP. Reduced model inference time by 40% while preserving accuracy and built scalable systems with Django and FastAPI. Created AI solutions for judicial, security, and enterprise applications.

Experience

Software Developer <i>Houston System</i>	Oct 2024 – Present <i>Greater Noida, Uttar Pradesh</i>
<ul style="list-style-type: none">Designed a real-time face detection system with multilingual chatbot integration, achieving 95% accuracy across diverse conditions.Created RBAC systems using Django RestAPI and FastAPI with JWT authentication, cutting unauthorized access by 80%.Built a case management system for Punjab and Haryana High Court, reducing processing time by 35%.Established data-driven project management with JIRA and Excel reporting for improved sprint planning.	
Software Engineer <i>Multicoreware Inc.</i>	Oct 2023 – Sep 2024 <i>Chennai, Tamil Nadu</i>
<ul style="list-style-type: none">Managed software lifecycle for high-availability systems, cutting time-to-market by 20%.Developed AI/ML solutions using MaxViT, YOLOv5, and Mask R-CNN models, boosting performance by 40%.Built Python backend services with Flask, django and FastAPI supporting 10,000+ concurrent users.Led Agile coaching and code reviews, decreasing bug rates by 25% and enhancing code quality.	

Projects

Visitor Management System <i>Python, Django, MySQL, Git</i>	April 2025 – Present
<ul style="list-style-type: none">Developing visitor system with Django and JWT-based RBAC authentication for 3 user roles.Creating scheduling algorithm reducing conflicts by 60%.Building visitor identification system cutting registration time by 75%.Designing admin controls with hierarchical permissions for enterprise security.	
Attendance Management System <i>Python, Deep Learning, Django, React, MySQL</i>	Jan 2025 – March 2025
<ul style="list-style-type: none">Built face recognition system using OpenCV and Dlib with 98% accuracy.Created secure database for timestamped records, reducing tracking errors by 90%.Accelerated facial feature pipeline 3x for resource-constrained hardware.Integrated data security with encrypted storage for GDPR compliance.	
Automatic Number Plate Recognition <i>Python, Deep Learning, FastAPI, MySQL</i>	Aug 2024 – Dec 2025
<ul style="list-style-type: none">Built ANPR system with 97% accuracy using custom YOLOv8 models.Processed 50,000+ vehicle images across varied conditions.Integrated model with FastAPI achieving <200ms response time.Reduced computational requirements by 30% for edge deployment.	
Court Guidance Case Management System <i>Python, Tkinter, MySQL</i>	May 2024 – July 2024
<ul style="list-style-type: none">Crafted accessible kiosk system for users with diverse disabilities.Developed multi-modal interfaces with 98.5% uptime and <2s response time.Created flexible case retrieval system reducing access time by 70%. security protocols for sensitive data protection.	
Testorent (Qualcomm) <i>Python, Deep Learning, CNN</i>	Oct 2023 – April 2024
<ul style="list-style-type: none">Refined models across frameworks with <1% accuracy loss.Applied quantization techniques (INT8, INT16, FP16), shrinking model size by 75%.Utilized AIMET toolkit for quantization and sensitivity analysis.Structured testing framework for validating quantization strategies.	

Education

PG-Diploma in Big Data Analytics

Center of Development of Advanced Computing, Bangalore, Karnataka

March 2023 – Aug 2023

Bachelor of Technology in Electronics and Communication Engineering

Dr. Rammanohar Lohia Avadh University, Ayodhya, Uttar Pradesh

July 2018 – Oct 2022

Senior School Certificate

Radiant Central Children Public School, Jalalpur, Ambedkar Nagar, UP.

July 2014 – Oct 2016

Secondary School Certificate

Radiant Central Children Public School, Jalalpur, Ambedkar Nagar, UP.

July 2012 – May 2014

Technical Skills

Programming Languages: Python, R, C/C++, JavaScript, SQL, Shell Scripting, HTML5, CSS

AI/ML Frameworks: PyTorch, TensorFlow, Keras, scikit-learn, ONNX, AIMET, Torchvision, OpenVINO

Web Frameworks: Django, FastAPI, Flask

Data Processing: NumPy, Pandas, SciPy, Matplotlib, Seaborn, Tensor, Polar

Computer Vision & NLP: OpenCV, Torchvision, SpaCy, NLTK

Databases: MySQL, PostgreSQL, MongoDB

Operating Systems: Ubuntu, Debian, Windows, Raspbian

DevOps & Cloud: AWS (EC2, S3, RDS), Docker, Git, Bitbucket, CI/CD pipelines

Development Tools: VS Code, PyCharm, JupyterLab, Google Colab, Kaggle, Roboflow

Core Competencies: Deep Learning, Computer Vision, NLP, System Design, API Design, Agile/Scrum

Soft Skills: Problem Solving, Cross-functional Collaboration, Technical Documentation, Project Management