ARJUN KUMAR

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OBJECTIVE

Software Engineer with 3+ years of experience in Python, Machine Learning, FastAPI, React, seeking full-time Software Engineer roles.

EDUCATION

B.Tech Information Technology, Indian Institute of Technology, Delhi - 2022
Relevant Coursework: Data Structures, Algorithms, Machine Learning, Web Development
Higher Secondary (12th), Delhi Public School - 2018
Relevant Coursework: Mathematics, Physics, Chemistry, Computer Science

SKILLS

Programming Languages: Python, JavaScript, TypeScript, Java, C++
Frameworks & Libraries: FastAPI, React, Node.js, TensorFlow, PyTorch, Django
Databases & Cloud: PostgreSQL, MongoDB, Redis, AWS, Docker, Kubernetes
Tools & Technologies: Git, Jenkins, MLflow, Streamlit, Postman, VS Code

EXPERIENCE

ML Engineering Intern - June 2023 - Present
TechCorp Solutions | Bangalore, India
• Developed computer vision models with 95% accuracy for real-time traffic analysis
• Built MLOps pipelines using Docker and Kubernetes, reducing deployment time by 60%
• Collaborated with cross-functional teams to deliver 5+ ML products to production
• Implemented automated testing frameworks that improved model reliability by 40%

Software Development Intern - January 2022 - May 2022
StartupXYZ | Remote
• Built responsive web applications using React and FastAPI serving 10K+ users
• Optimized database queries resulting in 50% faster API response times
• Integrated payment gateways and authentication systems with 99.9% uptime

PROJECTS

Computer Vision Traffic Monitoring System: Developed a real-time traffic analysis system using YOLO v8 and OpenCV that detects vehicles, counts traffic density, and predicts congestion patterns with 95% accuracy. Deployed on AWS with automatic scaling.
MLOps Pipeline for Model Deployment: Created end-to-end ML pipeline with automated training, testing, and deployment using MLflow, Docker, and Kubernetes. Includes A/B testing framework and model monitoring dashboard.
Job Application Automation System: Built an AI-powered platform that automatically generates customized resumes and cover letters for job applications. Features job matching algorithms and PDF generation with LaTeX templates.