Ashwin Rajan

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Summary

Cloud & AI Tech Enthusiast skilled in AI/ML (TensorFlow, NLP), Cloud (AWS, Azure), and Automation (CI/CD, Python). Developed intelligent systems like emotion recognition AI and automated cloud deployment solutions. Passionate about building scalable applications through innovative problem-solving. Strong collaborator with hands-on experience in full project lifecycles from concept to deployment.

Education

Vellore Institute of Technology, Bhopal   **Bhopal, MP**
Bachelor of Technology in Computer Science and Engineering   *Sep 2023 – May 2027*
- Specialized coursework: Cloud Architecture (AWS/Azure), DevOps, CI/CD Pipelines, AI/ML Fundamentals
- Relevant Skills: Python, Terraform, Jenkins, Serverless Computing, Infrastructure as Code (IaC)

Kongu Vellalar Matriculation Higher Secondary School   **Tamil Nadu**
12th Grade, Physics, Chemistry, Mathematics   *Completed*

Technical Skills

Programming Languages: Python, Java, C++, SQL
AI/ML Technologies: TensorFlow, OpenCV, Natural Language Processing, CNN
Cloud Technologies: AWS, Azure, Docker, Kubernetes, Serverless Computing
DevOps & Automation: Jenkins, CI/CD Pipelines, Infrastructure as Code (IaC), Terraform
Development Tools: Version Control Systems (Git), Virtualization Technologies
Languages: English, Tamil, Hindi

Projects

Emotion Recognition System | *TensorFlow, OpenCV, Python, CNN*   **2024**
- Developed a CNN-based emotion recognition system that classifies images as happy or sad with high accuracy
- Utilized TensorFlow and OpenCV for deep learning and computer vision implementation
- Demonstrated proficiency in AI/ML applications for psychology and human-computer interaction
- Implemented real-time image processing and classification algorithms

Automated Cloud Deployment System | *Docker, Kubernetes, AWS, CI/CD*   **2024**
- Designed and implemented automated deployment system using Docker and Kubernetes
- Built cloud-based AI model serving infrastructure on AWS platform
- Integrated CI/CD pipelines for seamless deployment and scaling
- Achieved improved deployment efficiency and system reliability

Speech Recognition System | *Python, Machine Learning, NLP*   **2023**
- Designed and optimized a speech recognition system achieving 12% performance improvement
- Coordinated comprehensive testing and validation ensuring compliance with industry standards
- Provided technical expertise contributing to 15% reduction in system failures
- Implemented advanced speech processing algorithms for accurate voice recognition

Certifications

Applied Machine Learning in Python   **2024**

Advanced SQL for Technical Interviews   **2024**

Additional Information

Key Strengths: Full project lifecycle management, Innovative problem-solving, Team collaboration
Interests: Cloud Architecture, Artificial Intelligence, Machine Learning, DevOps Automation
Professional Focus: Building scalable applications, AI model development, Cloud infrastructure optimization