Vijeth Patil

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TECHNICAL SKILLS

- Machine Learning & AI: TensorFlow, PyTorch, Scikit-learn, Keras, MLflow
- Data Science & Analytics: Pandas, NumPy, SQL, Power BI, Tableau, Snowflake
- Big Data & Cloud: AWS (EC2, S3, Lambda), Azure, Apache Spark, Kafka, Docker
- Programming: Python, C++, JavaScript
- Research Tools: Reinforcement Learning, Generative AI, LLM Fine-Tuning

EDUCATION

Master of Science in Information Technology **December 2025**
Arizona State University, Tempe, AZ **GPA: 4.0/4.0**

Bachelors in Electronics and Communication Engineering **June 2021**
KLE Technological University, Hubli, India **GPA: 3.4/4.0**

RESEARCH EXPERIENCE

Research Aide **January 2025 - Present**
Arizona State University **Tempe, AZ**

- Conducting multi-modal data fusion research for real-time disaster response using social media, satellite imagery, and IoT sensor data.
- Developing AI-driven decision-making models for crisis management using PyTorch, TensorFlow, and MLflow.
- Implementing scalable data pipelines to process diverse datasets, enabling real-time resource allocation.

PROFESSIONAL EXPERIENCE

Advanced App Engineering Associate **September 2021 - December 2023**
Accenture Solutions Pvt, Ltd **Bangalore, Karnataka, India**

- Designed scalable ETL pipelines in Snowflake for seamless data integration into a centralized warehouse, enhancing data accessibility and analysis across teams.
- Optimized SQL queries for extracting insights from project logs, reducing critical defect leakage by 13% and improving product reliability.
- Simulated system behavior under varying loads with Apache JMeter, resolving bottlenecks to boost system reliability and achieving a 35% improvement in user experience through reduced latency and smoother interactions.
- Drove continuous improvement in Agile development through active contributions to sprint planning and retrospectives.

Software Development Associate **June 2020 - December 2020**
Pequrel Microelectronics **Hubli, Karnataka, India**

- Developed an AI-driven driver warning system using YOLOv5 & CNNs, improving hazard detection accuracy to 95%.
- Implemented edge AI solutions to enhance real-time analytics and improve response time in mission-critical applications.

PROJECT EXPERIENCE

Smart Energy Metering System **January 2024 - April 2024**
Arizona State University **Tempe, AZ**

- Developed a power-efficiency monitoring system using Python, Scikit-learn, TensorFlow, and Apache Spark, achieving a 17% increase in electrical efficiency.
- Built an end-to-end IoT system using AWS Kinesis & MQTT, processing 1M+ daily datapoints.
- Applied LSTM & Random Forest models to predict power consumption, improving efficiency by 17%.