Shrenik Pillai

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PROFESSIONAL EXPERIENCE

Cloud Engineer | o9 Solutions | Bangalore, India
Jan 2023 – Aug 2025
- Architected scalable pipelines in high-stakes Mondelez production environment using AWS, Python, SQL, Docker, and Kubernetes, enhanced data ingestion, and modeling process by 5% to deliver insights and optimize cloud deployment.
- Implemented ELK Stack (Elasticsearch, Logstash, Kibana) to address monitoring inefficiencies, boosted operational efficiency by 5%, ensuring data quality and data warehouse stability resulting in improved scalability and reliability.

Computer Vision Intern | Moksa.ai | Bangalore, India
Jan 2022 – Apr 2022
- Developed ML pipelines with TensorFlow, OpenCV, and Azure DevOps for real-time theft detection in security applications, achieved 90% accuracy on datasets using YOLO, integrating cloud-based data modeling and troubleshooting.
- Optimized neural architectures through A/B testing and collaboration, reduced inference latency by 35%, refined production datasets, demonstrating problem-solving in performance enhancement and cloud system testing.

ACADEMIC PROJECTS

Lie Detection System | Amrita School of Engineering | Bangalore, India
Sep 2022 – Dec 2022
- Built supervised learning models with TensorFlow on 10,000+ images to analyze facial cues in AI research, applied to refine solutions, design end-to-end ML systems, and implement frameworks.
- Designed production pipeline with <100ms inference latency using A/B testing framework and explainability techniques, showcasing understanding of experimentation design, end-to-end ML system development.

VOLUNTEER EXPERIENCE

Technical Lead Volunteer | Google Student Developer Club | Bangalore, India
Sep 2021 – Aug 2022
- Led 5+ ML / data science competitions, using Python and SQL to analyze feedback and improve engagement by 25% for 200+ students, fostering collaborative problem-solving and providing insights in group or team discussions.
- Collaborated with industry experts and mentors on model deployment and experimentation methodologies, demonstrating strong verbal and written communication skills in coordinating with diverse stakeholders and support.

EDUCATION

The University of Texas at Dallas | Richardson, TX
GPA: 3.50/4.00 | Aug 2025 – Jun 2027
Master of Business Analytics and Artificial Intelligence (AI)
Relevant Coursework: Recommendation Systems, Experimentation Design, Data Visualization

Amrita School of Engineering | Bangalore, India
GPA: 3.34/4.00 | Jul 2019 – Aug 2023
Bachelor of Computer Science and Electronics Engineering
Relevant Coursework: Machine Learning, Data Science, Statistical Analysis, Data Structures and Algorithms

SKILLS

Programming: Python, R Programming, C/C++, TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib, JavaScript
ML Infrastructure: Docker, Kubernetes, AWS (SageMaker, S3, EC2), Code Review, Git, Airflow, Unix/Linux
Cloud & Database: AWS, Azure, Databricks, Snowflake, MongoDB, SQL (Snowflake, Oracle), NoSQL DBs
Additional Knowledge: Object-Oriented Programming (OOP), Model View Controller (MVC), IPC, Process Scheduling, Networking Protocols (TCP/IP, Web-Sockets), Full-Stack Development (Node.js/React.js, Web Services SOAP/REST API)
Certifications: The Data Scientist's Toolbox, Convolutional Neural Networks in TensorFlow, Microsoft: Azure Fundamentals
Soft Skills: Problem-Solving, Critical Thinking, Collaboration, Verbal/Written Communication
Eligibility: U.S. work authorization without visa sponsorship requirement