Shravan Chandra

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Summary

Data Scientist with 4+ years of experience building scalable, production-grade ML solutions in the automotive domain. Proven expertise in deep learning, model optimization, and MLOps on cloud infrastructure (Azure/PyTorch) with global collaboration. Skilled in delivering systems that have demonstrably reduced costs by over €150K annually, cut training time by 48%, and accelerated testing across international teams.

Technologies

Programming & Databases: Python, Flask, SQL, Postgres, HTML/CSS, JavaScript

ML/DL Frameworks: PyTorch, TensorFlow, Keras, Scikit-Learn, XGBoost, OpenCV, NLTK, LLM, Transformers

Cloud & MLOps: Azure, Databricks, Docker, Git, PySpark

Experience

Data Scientist (ML/AI Focus), Robert Bosch – Bangalore, IN   Jan 2023 – Present

- Reduced testing downtime by 4 months and saved over €150K+ annually by designing and deploying Autoencoders based anomaly detection models on ECU telemetry for predictive maintenance.
- Cut model training time by 48% and improved pipeline maintainability by leading the migration of ML infrastructure from TensorFlow 1.x to PyTorch with Azure GPU acceleration.
- Enabled faster diagnosis and minimized field failures by detecting signal drift in ECU measurements with 95% accuracy using advanced statistical techniques (KL Divergence & Hypothesis Testing).
- Streamlined testing for 100+ ECUs (50+ users) by developing real-time ML dashboards and web applications (Power BI/Flask) for model monitoring and report generation.

Software Engineer, Robert Bosch – Bangalore, IN   July 2021 – Dec 2022

- Reduced manual analysis time by 45% (25+ users) by creating Python-based GUIs and data scraping tools to automate the analysis of sensor and component data.
- Improved pricing estimation accuracy by 30% and reduced plant update turnaround time from 90 minutes to 5 minutes by engineering automation solutions using Python to extract PCB circuit data.

Junior Analyst - Intern, Goldman Sachs – Bangalore, IN   Jan 2021 – June 2021

- Accelerated trade booking time by 65% by automating document verification via web scraping.

Projects

Progressive Sign Language Quiz Application   github/Duolingo-ASL

- Designed and developed a mastery-gated learning platform inspired by Duolingo. Implemented a three-mode quiz system, ensuring users demonstrate proficiency across multiple recall methods before progressing. Features include dynamic level progression, score tracking, and an automatically populated Review Queue.
- Tools Used: Python, HTML, CSS, Javascript, Flask

Diabetic Retinopathy with XAI   github/Diabetic-Retinopathy

- Worked with **Dr. Gowri Srinivasa** to create Xception-based classifier on fundus images using TensorFlow, resulting in a high-performance 96% Kappa Score. Integrated Grad-CAM for medical transparency, visualizing hemorrhages and lesions on saliency maps to provide Explainable AI (XAI) insights.
- Tools Used: Python, Keras, OpenCV, Scikit-Learn

Publications

Dynamic Sign Language Translator   May 2022

Shravan Chandra, Venkatarangan MJ, Jyothi TN

Education

PES University, BTech in Electrical and Electronics   Aug 2017 – May 2021

- GPA: 8.5/10.0
- **Coursework:** Python, Data Structures & Algorithms, Database Management Systems, Machine Learning