

Varun Hirethotlukere Shamaraju

 varunhs306 |  varunhs306@gmail.com |  +49 15510081672
Leipzig, Germany

Summary

Professional experience delivering ETL pipelines, predictive models, and cloud-native solutions. Open to internship opportunities in analytics or engineering

Work Experience

Analyst - Deloitte South Asia LLP, Bengaluru

Oct 2024 – Mar 2025

- Migrated legacy data processes to AWS, improving data accessibility and query performance
- Built executive dashboards visualizing subscription revenue, event metrics, and member growth
- Implemented predictive models for member engagement scoring using Python and SageMaker
- Automated model retraining pipelines using Step Functions and Lambda for continuous improvement

Software Engineer — Atria Convergence Technologies, Bengaluru

Sep 2022 – Oct 2024

- Automated data ingestion from CRM and OSS/BSS systems using OCI Data Integration
- Built operational dashboards for NOC teams to monitor SLA compliance and outage metrics
- Developed predictive maintenance models to forecast network equipment failures
- Implemented MLOps practices including model versioning and A/B testing on OCI

Projects

- **SAGE v1.0.2 — Stock Analysis & Guidance Engine:** AI-powered tool for fundamental stock analysis, fetching real-time financial data and generating investment insights using local LLMs.
- **NSE Index Dashboard:** Interactive Streamlit dashboard for tracking NSE indices and stocks with real-time data from Yahoo Finance.
- **Serverless Telegram Bot:** Telegram bot backend deployed using Terraform and AWS Lambda, tested locally using LocalStack for serverless simulation.
- **Depression Detection from Social Media:** ML pipeline for detecting depression in social posts using NLP and classical models (SVM, RF, Naive Bayes). Focused on reproducibility, privacy (PII removal), and robust evaluation metrics.

Certifications

- Oracle Cloud Infrastructure — Certified Generative AI Professional
- Oracle Cloud Infrastructure — Certified Data Science Professional

Skills

Python | SQL | Bash | Postgres | SQLite | AWS | QuickSight | OCI | OCA | Grafana | Terraform | Docker | Apache Airflow | Streamlit | MLOps practices | RAG concepts.

Education

2025–present M.Sc., **SRH University**, Leipzig, Germany.

2018–2022 B.E., **Visvesvaraya Technological University**, Bengaluru, India.

Publications

Varun H. S., Shilpa H. — “Mining Social Media for Mental Health Insights: A Machine Learning Approach to Depression Detection.” *IJRAR*, Vol. 12, Issue 1, Mar 2025.

Languages & Availability

Kannada (native), English (B2), German (A1).