

# NAGA SRI RAM KOCHETTI

Liverpool, Merseyside L1 1JR | +44 7442242866 | [nagasriramkochetti@gmail.com](mailto:nagasriramkochetti@gmail.com)

## PROFESSIONAL SUMMARY

Results-driven Data & DevOps Professional with a hybrid background in Data Science, Data Engineering, Data Analysis, and DevOps. Proven success in developing scalable data pipelines, building predictive ML models, creating insightful dashboards, and automating cloud-based infrastructure. Experienced in working with large-scale datasets, cloud platforms (AWS, Azure), distributed systems (PySpark, Hadoop), and CI/CD automation. Adept at stakeholder collaboration, system design, and delivering impactful data-driven solutions across domains.

## EDUCATION

### Master of Science in Big Data and High Performance Computing

#### University of Liverpool

Expected Grade – Merit

Dissertation: **Deep Dense Reinforcement Learning** in Validating Safety Autonomous Vehicles

Developed an RL-based simulation environment to evaluate control policy stability under uncertainty. Used PyTorch and OpenAI Gym environments. Emphasized geometric structure in reward signal propagation and spatial dynamics, relevant to graph-based ML approaches

### Bachelor of Technology in Computer Science and Engineering

#### Gayatri Vidya Parishad College of Engineering

Graduated with First Class; GPA 7.1

Core areas: Algorithms, Data Structures, Operating Systems, Database Management Systems

## EXPERIENCE

### Department for Work and Pensions (DWP) | London, United Kingdom | On-site | Full-time (10 mos)

#### Data Analyst – Labour Market Insights (DWP)

Jun 2025 - Present (2 mos)

- Designed automated workflows for labour market data processing to support policy reporting.
- Created dashboards to track recruitment KPIs, reducing turnaround time by 20%.
- Liaised with policy teams to troubleshoot data-related issues and validate reports.
- Integrated Excel + SQL systems to improve data accuracy for employment tracking
- Skills: cross-team collaboration; team management; strategic planning; data analysis; stakeholder engagement

#### Universal Credit Claim Analyst

Oct 2024 - Present (10 mos)

- Conduct structured, work-focused interviews to assess claimant circumstances and collect data on barriers to employment
- Analyse claimant data to identify patterns and recommend targeted interventions
- Prepare reports summarising findings to support policy improvements and service delivery
- Liaised with internal DevOps teams to support infrastructure for claim processing
- Skills: Data Collection, Reporting, Policy Analytics, Cross-functional Communication

### Mars Inno India Private Limited | Visakhapatnam

#### Data Analyst Intern

Mar 2020 - Mar 2022

- Developed end-to-end predictive pipelines to forecast crop yields using regression and tree-based models.
- Delivered insight dashboards in Tableau/Power BI.
- Automated data cleaning and preprocessing using Python and SQL across large agricultural datasets.
- Engaged in remote processing of datasets and integration with internal systems
- Skills: Data Engineering, Machine Learning, Tableau, SQL, Python

---

## CERTIFICATIONS

---

- **Microsoft** Certified: Azure Data Engineer Associate.
- **Microsoft** Certified: Azure Enterprise Data Analyst Associate.
- **AWS** Data Analytics Specialty.
- **AWS** Fundamentals by Amazon.
- **ITIL** Foundation

---

## SKILLS

---

- **Programming & Engineering:** Python, R, SQL, C++, Java (basic), Bash, Git, Linux, REST APIs
- **Data Engineering:** PySpark, Hadoop, Apache Spark, PostgreSQL, MySQL, MongoDB, ETL pipelines, HPC scripting, data lakes, cloud storage
- **Data Analysis & BI:** Tableau, Power BI, Excel, statistical analysis, KPI dashboards, data storytelling, A/B testing
- **Data Science & Machine Learning:** Scikit-learn, NLP, deep learning, reinforcement learning, regression models, classification, clustering, sentiment analysis
- **DevOps & Cloud:** Docker, GitHub Actions, CI/CD, Jenkins, AWS (EC2, S3, Lambda), Azure Data Factory, Terraform (learning), containerization, DevOps workflows
- **Tools & Practices:** Jira, version control, FAIR data principles, unit testing, reproducible pipelines, technical documentation, Streamlit, Dash

---

## PROJECTS

---

- **University Student System Dashboard Support:** Built a modular SQL-based reporting pipeline with Power BI dashboards, improving user access monitoring and reducing manual queries by 40%.
- **GPS Trajectory Analysis with PySpark:** Designed a distributed PySpark pipeline to process and visualize large-scale GPS data with event filtering for spatiotemporal pattern detection.
- **Modular NLP Chatbot with FAISS:** Developed a semantic search chatbot using Python, FAISS, and Telegram API for intelligent query matching with modular NLP response logic.
- **Autonomous Driving Simulation (MSc Dissertation):** Used reinforcement learning to simulate and evaluate safe driving behaviors, optimizing control logic and reward structures.
- **Real-Time Tweet-Based Recommender:** Created a live sentiment-based movie recommender using Twitter API and NLP to classify tweet opinions and suggest trending content.
- **Crop Yield Prediction – Mars Inno Internship:** Built end-to-end ML pipelines using Python and SQL to forecast agricultural yields and delivered insight dashboards via Power BI.

---

## PERSONAL INTERESTS AND ACHIEVEMENTS

---

- GitHub Campus Advisor (2021–2022)
- Runner-up: Young Indian Challenge (2021)
- Organizer: AI & ML Club (2019)
- Recognized by Indian Education Ministry for tech innovation (2022)
- Enjoy Linux, swimming, art, and gaming

---

## SOCIAL CONNECTIONS

---

LinkedIn – <https://www.linkedin.com/in/naga-sri-ram-kochetti-72a464189/>

GitHub – <https://github.com/nagasriramnani>

LeetCode – <https://leetcode.com/RexDrw/>