

Charan Gunisetty

Data Scientist

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PROFILE

Data Scientist with 6+ years of end-to-end experience designing and delivering ML/AI solutions across energy, logistics, and public-sector domains. Skilled across the full data science lifecycle - from data ingestion, transformation, and feature engineering through model training, evaluation, and production deployment. Experienced in communicating complex analytical findings to both technical and non-technical stakeholders, mentoring junior colleagues, and shaping data science strategy within agile teams. MSc Data Science, University of Aberdeen.

SKILLS

ML / AI	Supervised & unsupervised learning, anomaly detection, classification, regression, time-series forecasting, NLP/LLM pipelines, transfer learning, feature engineering, probabilistic modelling, Bayesian methods, model evaluation (ROC-AUC, precision-recall, cross-validation)
Generative AI	LLM pipelines, prompt engineering, LangChain, Hugging Face Transformers, automated insight generation, synthetic data generation
Data Engineering	ETL/ELT pipelines, Azure Data Factory, data cleansing and transformation, data quality controls, multi-source integration, provenance tracking
Programming	Python (pandas, NumPy, scikit-learn, TensorFlow, Keras, PyTorch, matplotlib), SQL, SAS
Cloud	Azure (Azure ML, Data Factory, Azure SQL, Blob Storage, Databricks), AWS (SageMaker, IAM, VPC, EC2, S3), Jupyter Notebooks, Git
Visualisation	Power BI (15+ production dashboards), data storytelling, automated reporting, self-serve analytics
Delivery	Agile delivery, experiment design, stakeholder reporting, technical mentoring, customer requirement analysis, proposal scoping

EXPERIENCE

Technical Consultant - Data & AI [OctoNexus Power](#) Jan 2026 - Present | Aberdeen

- Designed data infrastructure and intelligent automation pipelines for operational analytics - selecting cloud architecture, APIs, and ingestion methods for real-time sensor data from green hydrogen and fuel cell systems.
- Built anomaly detection and predictive maintenance models on live telemetry data, surfacing operational issues before failure and communicating findings to founders and non-technical clients.
- Applied LLM pipelines to automate client-facing reporting, significantly reducing manual turnaround time and improving quality of insight delivered to stakeholders.
- Defined the organisation's end-to-end data science strategy - establishing tooling standards, modelling workflows, and a roadmap to scale ML capabilities.
- Conducted deep-dive analyses in Jupyter Notebooks, translating findings into product specifications and demos supporting client acquisition.

Data Scientist [Fennex](#) Jul 2024 - Feb 2025 | Aberdeen

- Designed forecasting and anomaly-detection models on time-series and sensor datasets to support offshore safety and operational planning for Noble Drilling across global projects.
- Architected ETL pipelines using Azure Data Factory and Python: multi-source ingestion, schema normalisation, custom data quality validation, and automated alerting on pipeline failures.
- Generated synthetic datasets to underpin technical proposals where live operational data was restricted, enabling rigorous model demonstrations to prospective clients.
- Trained, evaluated, and deployed ML models end-to-end via Azure ML - managing experiment tracking, versioned model registry, and automated retraining triggered by data drift detection.
- Developed and deployed 15+ Power BI dashboards with probabilistic risk modelling, presenting complex outputs as actionable intelligence to operational leadership.
- Co-delivered an extreme-weather prediction model on 1M+ records, achieving an 18% improvement in early-warning accuracy - recognised with a Digital Innovation Award.

Research Data Scientist University of Aberdeen *Nov 2022 - Oct 2023 | Aberdeen*

- Applied SVM, KNN, network analysis, and spatial algorithms to analyse infrastructure performance and maintenance patterns; findings integrated into government planning frameworks across India and Brazil.
- Designed a composite predictive index using supervised ML, achieving 82% classification accuracy and contributing to a 14% improvement in targeted planning outcomes.
- Built interactive analytics dashboards to communicate findings to government, academic, and non-specialist audiences; implemented data-cleaning workflows across large multi-source datasets.
- Co-supervised research outputs and designed experiment plans with academic partners in Manchester, Brazil, and India on a Royal Society-funded programme.

Data Engineer / Transportation Specialist Amazon *Aug 2020 - May 2022 | Hyderabad*

- Built Python and SQL pipelines for capacity planning, route analysis, and demand forecasting; reduced reporting latency by 80% and saved 41 man-hours per week through automation.
- Created QlikView dashboards transforming supply chain data into clear leadership insight; partnered with operations managers to define requirements and present analytical findings.
- Implemented data quality checks, audit trails, and documentation standards to strengthen governance across large-scale data operations.

SELECTED PROJECTS

Extreme Weather Prediction System - Fennex / Noble Drilling

Ensemble ML model on 1M+ meteorological and operational records. 18% improvement in early-warning accuracy for offshore operations. Digital Innovation Award.

UK Electricity Price Forecasting - MSc Thesis

Hybrid ARIMA, Monte Carlo simulation, and reinforcement learning pipeline. Reduced RMSE by 22%. Automated Azure ML pipeline cut processing time by 60%.

Infrastructure Analytics Platform - University of Aberdeen / Royal Society

SVM and KNN predictive models with interactive dashboards. 82% classification accuracy. Findings adopted in government planning frameworks across two countries.

ADDITIONAL

- Volunteer Data Lead, Scottish Tech Army (Mar 2024 - Dec 2025): mentored junior data practitioners and delivered ML and analytics projects for public-sector and non-profit organisations across Scotland.
- Student Convenor & Class Representative, University of Aberdeen: mentored MSc peers in analytics tools, project delivery, and research methods.
- Writes about applied AI, data engineering, and analytics on Medium.

EDUCATION

MSc Data Science University of Aberdeen, UK *2022 - 2023*

Machine Learning, Statistical Modelling, Optimisation, Big Data Analytics, Data Visualisation

BTech Mechanical Engineering JNTU, India *2013 - 2017*