

Sohan Sanjeeva Puthran

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DATA SCIENTIST

Data Scientist skilled in transforming complex data into actionable insights through advanced analytics, statistical modeling, and scalable ML solutions. Experienced in building data pipelines, forecasting models, and recommendation systems using Python, SQL, and cloud-native tools (AWS, Azure, Snowflake). Adept at collaborating cross-functionally to translate business challenges into analytical frameworks that drive growth, automation, and strategic decisions.

TECHNICAL SKILLS

- **Programming & Tools:** Python, SQL, R, PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy
- **Analytics & Statistics:** Regression, Hypothesis Testing, Multivariate Analysis, Experiment Design
- **Data Engineering:** Airflow, Docker, Snowflake, AWS Lambda, Azure Data Factory
- **ML Techniques:** Forecasting (LSTM, ARIMA), Anomaly Detection, Clustering, Recommendation Systems
- **MLOps & Deployment:** CI/CD, SageMaker Pipelines, Azure ML, LangChain, RAG, FAISS
- **Visualization & Others:** Tableau, Power BI, Streamlit, Folium, Git, Agile Collaboration, Cross-functional Communication

WORK EXPERIENCE

Lundbeck

Deerfield, Illinois

Data Scientist

January 2022 - May 2024

- Designed and deployed time-series forecasting and regression models (TensorFlow, Keras) improving forecast accuracy and profitability by **22%**.
- Conducted **hypothesis testing** and **A/B analysis** to validate model-driven business recommendations.
- Automated multi-source data pipelines (Airflow, Python, SQL, Snowflake, AWS) reduce latency and improve reliability.
- Built anomaly detection models using classification and deep learning; improved issue detection accuracy by **30%**.
- Created **Tableau and Power BI dashboards** to visualize product-level insights for business stakeholders.
- Deployed scalable ML models using **AWS SageMaker** and **CI/CD**, cutting model refresh time by **36%**.

Airiva

Hilliard, Ohio

Junior Data Scientist

October 2020 - December 2021

- Engineered **demand forecasting models** (PyTorch, Scikit-learn) across 4500+ property listings, increasing revenue by **30%**.
- Performed **exploratory data analysis** and **feature engineering** to identify key performance drivers.
- Automated ETL workflows using **Azure Data Factory** and SQL, reducing report latency by **40%**.
- Developed **geospatial dashboards** (Streamlit, Folium) and **conversion analysis** for marketing optimization.
- Applied **clustering and regression** to evaluate amenity-based pricing strategies, boosting profit margins by **26%**.

Plexus365

Bengaluru, India

Junior Software Engineer

September 2017 - June 2018

- Developed and maintained cross-platform web and mobile applications using Angular 5, .NET Core, and Ionic 3.
- Integrated Google Maps API for geospatial visualization and real-time location insights.

PROJECTS

Quant Trading System (github.com/sohansputhran/quant-trading-system)

- Built end-to-end analytics and forecasting system integrating Alpaca API, time-series models, and backtesting pipelines.
- Implemented **technical and sentiment analysis pipelines**, combining multiple data sources for signal generation.
- Designed a **Streamlit dashboard** for performance analytics; automated daily updates via **CI/CD workflows**.

AI Resume Copilot (github.com/sohansputhran/ai-resume-copilot)

- Developed an **LLM-powered semantic search system** using LangChain and FAISS to align resumes with job descriptions.
- Deployed as a Streamlit app enabling data-driven career optimization and AI-based feedback generation.

Omdena - Lead ML Engineer (Energy Optimization & Financial Crime Detection)

- Led computer vision models for rooftop solar and obstacle detection supporting global sustainability initiatives.
- Built fraud detection models for financial intelligence; won **1st place in UN "Unite Ideas" challenge**.

EDUCATION

Master of Artificial Intelligence, Campbellsville University - Louisville, KY (June 2024 - June 2026)

Master of Data Science, Illinois Institute of Technology - Chicago, IL (Aug 2019 - Jun 2021)

Bachelor of Computer Science and Engineering, Visvesvaraya Technological University - Belgaum, India (Aug 2013 - Jun 2017)