

Junior Data Scientist

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**Professional Summary**

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Junior Data Scientist specializing in computer vision, NLP, and predictive modeling. Proficient in Python, TensorFlow, and PyTorch, with hands-on experience in data cleaning, EDA, and deploying AI solutions. Skilled in building reliable, efficient, and scalable ML systems aligned with business needs, focusing on delivering measurable real-world impact.

**Skills**

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**Technical Skills**

- Programming: Python, R
- Machine Learning: Regressin, Classification, Clustering, LSTM
- Date Science Tools: Numpy, Matplotlib, Scikit-learn, TensorFLoW, Pytorch
- Data Engineering: ETL Pipeline, Data Cleaning, Data Wrangling
- MLOps & Deployment: FastAPI, Streamlit
- Others: Git, Github

**Software Tools**

Cursor, VS Code, PyCharm, Google Colab, Kaggle, Jupiter Notebook

**Work Experience**

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**Data Science Intern** - Information Network Security Agency (INSA) - Addis Ababa, Ethiopia | Jun 2025 - Present

- Developed computer vision solutions for object detection in security-related imagery, improving automated threat recognition.
- Built Amharic speech-to-text NLP models for transcribing and analyzing audio data, enhancing multilingual accessibility.
- Performed EDA, preprocessing, and optimization of AI models, leading to measurable improvements in performance and processing speed.

**Machine Learning Engineer Trainee** – 10 Academy - Remote | May 2025 – Present

- Completed 12+ real-world, time-bound projects in data science, machine learning, and AI, simulating industry workflows.
- Built **end-to-end ML solutions** including data collection, preprocessing, model development, deployment (FastAPI, Docker)
- Applied **statistical modeling, time-series forecasting (ARIMA, LSTM), and NLP (sentiment analysis, RAG chatbots, NER)** to solve domain-specific challenges in **finance, insurance, and e-commerce**.

## Projects

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### Intelligent Complaint Analysis – [GitHub](#)

- Developed a Retrieval-Augmented Generation (RAG) system to analyze customer complaints across multiple financial products. Integrated NLP models and vector databases to deliver real-time insights for improved customer service operations.

### Credit Card Fraud Detection – [GitHub](#)

- Implemented machine learning models to detect fraudulent transactions. Utilized advanced feature engineering, handled imbalanced datasets, and applied ensemble learning methods to achieve high detection accuracy.

### Credit Risk Probability Model – [GitHub](#)

- Built an end-to-end credit scoring solution using behavioral and transactional data. Combined RFM analysis with machine learning classifiers to estimate borrower default risk for financial institutions.

### Insurance Risk Analytics – [GitHub](#)

- Performed exploratory data analysis and predictive modeling on car insurance claims. Designed models to optimize premium pricing and forecast claim severity using regression and classification techniques.

### Brent Oil Change Point Analysis – [GitHub](#)

- Analyzed historical Brent oil price data using statistical change point detection methods. Produced insights to assist in financial risk management and long-term forecasting strategies.

### Portfolio Forecasting with GMF – [GitHub](#)

- Developed ARIMA and LSTM models for forecasting financial asset returns. Built optimized investment portfolios with a focus on maximizing risk-adjusted returns.

## Education

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**Education BSc in Data Science** – Bahir Dar University – Ethiopia – 2022 – 2026

Specialization: Machine Learning & AI Applications

## Certifications

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**Data Analysis Fundamentals** – November 1, 2024

**Artificial Intelligence Fundamentals** – February 11, 2025

**Machine Learning for Data Science Projects** – April 17, 2025