

# TANMAY ELINJE

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## SUMMARY

Motivated Marine Engineer transitioning into Data Science, leveraging a robust engineering background and a recent specialization in Big Data Analytics. Eager to apply skills in Python, SQL, and Machine Learning in a Data Analyst or Junior Data Scientist role. Possesses a strong, analytical mindset honed by troubleshooting mission-critical systems in high-pressure environments. This rapid adaptation to a new technical field is demonstrated by securing the 3rd Rank at the C-DAC Kharghar centre, excelling in a cohort where the majority of students came from an IT background.

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## TECHNICAL SKILLS

- **Programming & Databases:** Python, MySQL
  - **Data Science & Machine Learning:** Pandas, NumPy, Scikit-Learn, TensorFlow, Transformers, NLP, Time Series Forecasting
  - **Big Data Technologies:** Hadoop Ecosystem, PySpark, Kafka
  - **Cloud & DevOps:** AWS (S3, EC2, RDS, Lambda, EventBridge, IAM)
  - **BI & Visualization:** Power BI, Tableau, Seaborn, Matplotlib
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## PROJECTS

### AlphaVue: AI-Powered Portfolio Recommendation System

- Developed a full-stack portfolio recommendation system using Streamlit and AWS (EC2, RDS) to provide data-driven investment guidance to novice investors.
- Engineered an end-to-end MLOps pipeline using AWS Lambda and EventBridge to automate daily data ingestion from yfinance and Kuvera APIs, feeding fresh data into Prophet time series models (>90% accuracy) for bi-monthly retraining.
- Utilized a RandomForestClassifier for risk profiling and K-Means for asset allocation, presenting results and historical performance through interactive Power BI dashboards.

### CareerLens AI: Generative AI Resume Analyzer

- Built and deployed an AI resume analyzer on Hugging Face Spaces using Python and Flask to help users optimize their resumes against specific job descriptions.
- Engineered an NLP pipeline using a Hugging Face Transformer (BERT) for skill extraction and ATS score calculation, and integrated the Google Gemini API to generate suggestions for content improvement.

### ImageEcho: Deep Learning Image Caption Generator

- Developed an end-to-end deep learning model to automatically generate descriptive text captions for images.
- Engineered a multi-modal encoder-decoder architecture using a pre-trained VGG16 (CNN) and a Bi-directional LSTM with a self-attention mechanism.
- Trained the model on the Flickr8k dataset (from Kaggle) and rigorously evaluated the quality of the generated captions using industry-standard BLEU scores.

## StockLane: Real-Time Inventory Management System

- Developed a full-stack inventory management web application with a secure role-based access control (RBAC) system.
  - Implemented a real-time update mechanism to instantly synchronize stock changes across all active user sessions.
  - Built with a decoupled architecture using React for the frontend and Python/Django for the backend API.
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## PROFESSIONAL EXPERIENCE

### Junior Engineer, Anglo Eastern Ship Management

May 2022 - Oct 2023

- Diligently monitored and recorded key performance indicators for all critical machinery, creating a data log that enabled the proactive identification of performance deviations and potential faults.
  - Averted significant voyage delays by diagnosing a fuel contamination issue through the analysis of purifier sensor data; optimized system settings to restore fuel integrity and ensure optimal power output.
  - Conducted a root cause analysis of a system-wide anomaly by systematically investigating sensor readings and operational logs, successfully identifying a critical component failure to prevent escalating operational costs.
  - Proactively identified and recommended critical safety enhancements, which were adopted by management and recognized with a monetary award for significantly improving crew safety.
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## EDUCATION

### PG - Diploma in Big Data Analytics

Feb 2025 - Aug 2025

Centre for Development of Advanced Computing (CDAC), Kharghar

- **Percentage:** 79.80%
- **Achievement:** Secured 3rd Rank at the Kharghar center, successfully transitioning from a non-IT background to excel in a cohort with a majority of IT graduates.
- **Leadership:** Selected for leadership roles throughout the program, serving as Technical Lead and later as Project Lead for different project teams.

### B. Tech in Marine Engineering

Jul 2017 - Jul 2021

Indian Maritime University, Mumbai

- **Percentage:** 74.71%
  - **Leadership:** Demonstrated organizational skills as an Event Coordinator for multiple events (Boat Racing, Chess) during the annual college festival, PRAYAAN.
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