

Anindita Goswami

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Profile

Machine Learning Engineer with hands-on experience in developing and deploying large language models (LLMs) using Python, PyTorch, and Hugging Face. Proven ability to develop and deploy ML models and data Dashboards. Passionate about uncovering insights from data to solve real-world problems.

Technical Skills

Programming & Data Analysis: Python, Pandas, NumPy, Matplotlib, Seaborn

Data Manipulation & Exploration: Exploratory Data Analysis (EDA), Statistical Analysis, Hypothesis Testing

Databases: MySQL, PostgreSQL, MongoDB

Data Visualization & Reporting: Power BI, Matplotlib, Seaborn

Tools & Technologies: Jupyter Notebook, VS Code, Git, GitHub.

Work Experience

KARUNADU Technological Industry | Python & ML INTERN

14'Feb - 20'Mar ,2025.

- Contributed to the design and optimization of Machine learning algorithms.
- Analyzed** large datasets to identify trends and patterns, increasing predictive accuracy **by 85%**.
- Reduced Data processing time **by 20%** .

ROOMAN Technologies Private Limited | AI/ML INTERN

25'Sep - 1'Mar ,2025.

- Predictive modeling and System learning tasks optimizing model **by 80%**.
- Developed Churn Prediction and House Loan prediction models using machine learning techniques.
- Gained knowledge in **Python basics, Prompt engineering, Linux basics, DBMS, and Cloud-Based** Technologies.

Projects

Automatic Caption generator

Jul - Sep 2024

An advance Image processing application

- Simplified dataset of **8k images** and trained the model of **40k captions** to generate accurate captions.
- Operated caption generation accuracy by **70%**.
- Tech Stack:** Python, Keras, TensorFlow

Advanced Market Segmentation

Feb - Mar 2025

Finding latest trends and patterns

- Implemented **K-means Clustering** on Identifying **4 distinct** segments using Elbow method and Silhouette Score **of 0.63**.
- Performed **EDA** and Feature Scaling with Pandas, Seaborn reducing dimensionality **by 40%**.
- Built and Interactive Tkinter interface to display segmentation result with future development planned via **Django + FastAPI**.

Sales Forecasting

Mar - Working 2025

Time series analysis for predicting sales.

- Developed Prophet based forecasting model with **MSE=412.5, MAPE = 7.8%** on weekly sales data.
- Identified seasonal trends and holiday effects via **EDA and decomposition plots**, reducing forecast error **by 18%**.
- Currently building **Django+ FastAPI** with real-time prediction and downloadable dashboards.

Achievements and Certifications

- Infosys Certifications:** Certified in **Fundamentals of Python**.
- Google AI Essentials :** <https://tinyurl.com/42rct79x>
- Python and AWS :** <https://tinyurl.com/42rct79x>

- **Microsoft Course** on fundamental of **AI/ML**.
- **Probability and Statistics using Python:** <https://tinyurl.com/42rct79x>

Education

- Currently pursuing **B.tech in Computer Science & Engineering**, Sapthagiri College of Engineering, Bangalore .
- Completed Higher Secondary Education (2019-2021),TBSE, Baikhora English medium School, Tripura.