

# Anindita Goswami

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## Profile

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Aspiring Data Scientist with hand-on experience in Python, Machine Learning and Data Visualization. Proven ability to develop and deploy ML models and data Dashboards. Passionate about uncovering insights from data to solve real-world problems.

## Technical Skills

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

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

**SQL & Databases:** Joins, Aggregations, Window Functions, Subqueries, Group By, Having Clauses; MySQL, PostgreSQL

**Data Visualization & Reporting:** Power BI, Tableau, Matplotlib, Seaborn

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

## Work Experience

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### 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

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### 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

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- 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

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- 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.