

# SHRADHANJALI PRADHAN

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## EDUCATION

### Boston University

Massachusetts

MSc in Applied Data Analytics

Graduation Date: December 2024

- Developed ML models in R (Lasso, XGBoost) for house price prediction, Increased prediction accuracy by 25% through detailed EDA. Currently advancing skills in a project named “DeepRealty: Neural Networks for Property Valuation”.

## WORK EXPERIENCE

### Steradian

Bhubaneswar

AI/ML Engineer

Nov 2022 – Mar 2023

- Improved data quality for the Malaysia team by executing advanced data cleaning tools, eliminating duplicates, and filling NaN values in medical datasets.
- Utilized Python tools such as Scrapy and BeautifulSoup to gather and analyze IoT data, optimizing operational efficiency by 30%.
- Spearheaded the creation of a machine learning-based recommendation engine, increasing cross-selling and upselling opportunities by 40%.

### Remotecare

Chennai

Data Analyst Intern

July 2022 – Nov 2022

- Implemented ML models for customer churn prediction and sales forecasting, enhancing predictive analytics using Python tools.
- Analyzed extensive datasets to identify trends, collaborated with cross-functional teams, and contributed to overall company performance improvement.

## PROJECT WORK

### Chatbot with OpenAI GPT-3 using Flask

- Crafted a witty and engaging chatbot using OpenAI's GPT-3, blurring the lines between AI and human conversation.
- Built a robust Flask application for seamless interaction and lightning-fast responses.

### LLM-Powered Wikipedia Chat Assistant with RAG

- Engineered a custom Wikipedia search engine powered by LLMs, unlocking the platform's knowledge through natural language queries.
- Built a conversational UI for intuitive interactions and comprehensive, nuanced responses.

## SKILLS & INTERESTS

**Data Analysis:** Pandas, NumPy, Matplotlib, Seaborn, Tableau, Hypothesis Testing, Regression Analysis

**Libraries:** Scikit-Learn, TensorFlow, Keras, NLTK, Spacy, NLP, CNN, RNN, LSTM, GPT, GAN, Yolo

**NLP:** Sentiment Analysis, Text Classification, Named Entity Recognition, BERT, Transformer

**Deployment:** Streamlit, Amazon Sagemaker, Spark, Flask, Git, Automation, Data Engineering

**Soft Skills:** Problem-solving, Critical Thinking, Effective Communication, Team Collaboration, Time Management

**Interests:** Data Visualization, Data Preprocessing, Machine Learning Model Building, Data Mining, Python, R Programming, Project Management, Leadership