Shraddha Bangad

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EDUCATION

Masters in **Artificial Intelligence** | Northwestern University, Evanston IL | **GPA** - 3.94 **Sep 2021 - Mar 2023**
Coursework: Machine Learning, Data Science, Artificial Intelligence, Deep Learning for Computer Vision, Natural Language Processing, Human Computer Interaction, Law and Governance of Artificial Intelligence

Bachelor of Engineering in **Computer Engineering** | Savitribai Phule Pune University, India **Jun 2017 - Jun 2021**
Coursework: Data structures and algorithms, Object Oriented Programming, Database Management Systems
Position of Responsibility: Coordinated and managed a team of 20 people for Pune's largest college cultural festival with an estimated footfall of over 10000 people, for 2 consecutive years.

SKILLS

Languages, Database: Python, R, C++, SQL | MySQL, Postgres

Libraries: Pandas, NLTK, NumPy, SciPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras, PyTorch, OpenCV, D3.js

Tools, Technologies, Methodologies, OS: Docker | Kubernetes, Kubeflow | Git, GitHub | GCP, AWS | Databricks, Apache Spark | Jupyter Notebook, PyCharm, VS Code| Tableau, Google Data Studio | Agile | Linux, macOS, Windows

Technical Data Skills: Data Analysis, Data Wrangling, Data Engineering, Data Visualization, Machine Learning Models, Deep Learning Models, Unit Testing, A/B Testing

PROFESSIONAL EXPERIENCE

M4A Foundation - Machine Learning Engineer Boston, MA | **Jan 2023 - Present**

- Spearheading the collection and curation of over **50** unique medicinal herb entries related to mental health, transforming them from diverse sources into structured datasets optimized for ML applications.
- Employing Databricks and Apache Spark to process and organize datasets, achieving a **60% reduction in data preprocessing durations**.
- Partnering with a team of **15 member**s across different departments to drive a **40% improvement in the integration efficiency** of the data pipeline into ML models.

John Deere - Co-op Machine Learning Engineer Intern Chicago, IL | **Sep 2022 - Dec 2022**

- Led a team of 5 in developing a regression model to maximize sugar yield, contributing to a **29% boost in customer revenue**; the team's efforts were recognized with the **Best Project Award** at Northwestern University.
- Optimized machine learning algorithms, leveraging a variety of regression models and fine-tuning each to **improve predictive accuracy by 15%**.
- Examined comprehensive data sets, successfully pinpointing key features that led to a **5% increase in sugar yield per acre** via an OLS regression model.
- Collaborated with cross-departmental stakeholders to present data-driven findings, effectively communicating the business value of our machine learning model.

PlanetTeach Labs - Machine Learning Scientist Intern Pune, India | **May 2019 - May 2020**

- Formulated a recommendation system to furnish personalized recommendations to the users, culminating in a **15% surge in user engagement**.
- Integrated advanced NLP techniques robust feature extraction from user review data, **amplifying the model's performance by 20%**.
- Orchestrated the architecture and deployment of a scalable data ingestion pipeline and feature store, achieving high efficiency and **reducing data processing time by 30%**.
- Coordinated with the product team to pinpoint and elevate critical user needs, ultimately driving a **25% uptick in user satisfaction level**.

PROJECTS

Image Classification and Nutrition Retrieval (Python, SQL, Neural Networks, PyTorch, Matplotlib)

- Engineered an image classification system using CNN and RESNET 34 model to identify food and extract their nutritional values, achieving **98% accuracy** and **F1 score of 0.91**.
- Designed a nutrition retrieval system employing SQL queries on the classification results, **accelerating data retrieval speed by 25%**.

Chicago Police Department Sentiment Analysis (Python, SQL, Trifacta, Tableau, D3.js, NLP, Tensorflow, BERT)

- Architected an end-to-end data science pipeline, using PostgreSQL, Trifacta, Tableau, and D3.js, to scrutinize the sustainment rates of the complaints against Chicago police officers.
- Leveraged BERT for multi-label text classification to analyze and categorize police complaints, achieving an **accuracy of 94.8%**.

Time Series Forecasting for Stock Prices (Python, Yahoo Finance API, Matplotlib, Time series analysis, Tensorflow)

- Extracted and preprocessed historical stock price data from the Yahoo Finance API using Python, conducting data cleaning and exploratory analysis to prepare for time series forecasting.
- Forecasted stock prices using multiple time series models, including ARIMA and LSTM, achieving a **MAPE of 2.5%**, indicating **97.5% accuracy** in predicting the next observations.