

Shravani Nimbolkar

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SUMMARY

Hi! I am a passionate data enthusiast proficient in Python, SQL, and AI frameworks like TensorFlow and PyTorch. I am also experienced in developing end-to-end data-driven systems, building data pipelines, and fine tuning LLMs. I am committed to utilizing AI for social and environmental good by leveraging cutting-edge technologies to make a positive impact.

SKILLS

- Languages:** Python, SQL, CPP, Frontend: HTML, CSS, JS;
- Frameworks:** Pandas, Numpy, Sklearn, TensorFlow, Pytorch, Keras, Regression, Ensemble techniques, CatBoost, Statsmodel, Neural nets, SimpleTransformers, OpenCV, NLTK, Flask, Git, RapidMiner, Pypfopt, GCP, BERT, Pycarat, H2O, BigQueryML;
- Dashboarding:** PowerBi, Tableau, Looker, Google analytics dashboard, MS Excel

EXPERIENCE

Data Science Intern OmniThink.ai	May 2023 - Aug 2023
<ul style="list-style-type: none">Optimized queries in BigQueryML on a dataset of 14.5K rows resulting in 20% reduction in query execution time. Analyzed the data to find the anomalies and generated interactive visualization dashboards on Looker Studio to present actionable insights to the stakeholders.Implemented ARIMAX for sales forecasting and used BERT for sentiment analysis on product reviews to leverage the forecast. Performed statistical analysis and hypothesis testing for feature selection and VIF technique in Statsmodel to mitigate multicollinearity.Used hyperparameter tuning to reduce the mean error by 6% compared to baseline ARIMA PLUS model.Built and managed data pipelines in Dataflow to streamline analytics workflows in real-time.	

Associate Analyst Schlumberger	Aug 2021 - Jul 2022
<ul style="list-style-type: none">Maintained 98%+ uptime for 150+ applications across the organization through monitoring and troubleshooting using Dynatrace and SAP Solman eradicating 75% critical issues. Leveraged Power Automate to automate 50% of documentation workflows, streamlining processes and increasing operational efficiency.Created and deployed real-time PowerBI dashboards for stakeholders to track application's performance metrics and KPIs for informed decision making.Played a critical role during system outages by promptly reporting alerts, collaborating with SREs, product owners and application teams, and coordinating resolution efforts. Demonstrated strong collaboration skills in a high-pressure environment.	

Machine Learning Intern Centre for Development of Advanced Computing	Sep 2020 - Mar 2021
<ul style="list-style-type: none">Researched about LLMs and Implemented a BERT classifier in SimpleTransformers on Liar Liar (comprising 12.K rows) and PolitiFact (comprising 21K rows) dataset.Performed text pre-processing NLP tasks and extracted out stylistic attributes of the text like length, grammar, word frequency with a few additional features like stance, sentiment after carefully studying their correlation with target variable to refine the prediction.Fine-tuned the BERT model on 80% data which yielded an accuracy of 82%, achieved a 4% increase in accuracy compared to the baseline model.	

EDUCATION

University of California, Berkeley MS in Analytics GPA 3.6 Vice-president of technology Berkeley Analytics Consulting Organization	May 2023
Pune University Bachelor of Computer Engineering CGPA: 9.0/10.0 Courses: DSA, DBMS, Web Technology, Software engineering & Project management, AI & Robotics, Data Analytics, Data mining & warehouse, Machine learning	Jul 2021

NOTABLE PROJECTS

Lung Disease Prediction CXRDiagnostics 1st Prize GitHub Book chapter	Jun 2021
<ul style="list-style-type: none">Built a classifier called MetaEfficientNet trained on Chest X Ray image dataset having an accuracy of 97% with 3 classes; Pneumonia, COVID19 & Normal.Used Few shot learning approach to further train the model on limited data. Used Metric-based Siamese net consisting of two EfficientNetB0 models as sister networks to learn the image representation in feature space.Achieved an accuracy of 85.5% for 6 newly introduced classes of lung diseases; successfully deployed the model on a web app using flask and Heroku; led a team of 3 and won 1st prize among 23 project teams.	
SensorAI - Human Activity Recognition GitHub	Dec 2020
<ul style="list-style-type: none">Aggregated sensor readings from 24 subjects engaged in 6 distinct physical activities, consolidating them into a unified dataset comprising about 15,000 rows. Performed initial data preprocessing and feature engineering, subsequently refining the dataset by extracting 45 relevant attributes followed by feature scaling.Trained a deep neural network on 75% of the data, while also creating simulations to account for scenarios involving sensor malfunctions or absences. Built a robust model with a test accuracy of 93.4%.Utilized Tensorflow.js to deploy the final model in a cost-effective and highly scalable manner, eliminating the need for a backend infrastructure.	

Other Projects

- [PortfolioPro \(Optimization\)](#) , [Customer Segmentation \(Clustering\)](#), [Walmart Sales\(Timeseries\)](#) , [AI for an Eye\(Computer vision\)](#), [AgroML \(Computer vision\)](#)

ACHIEVEMENTS

- Data Centric AI Competition 2023 | Multi-class Text Classification, used ensemble of BERT, RoBERT [Rank 23 /343 participants](#) | Feb 2023
- Uhack Sentiment 2.0: Decode Code words | Merkel challenge | Multi-Label Text Classification, used RoBERT, DistilBERT [Rank 5/1041 participants](#) | Jan 2022
- Deloitte Machine Learning Challenge | CatBoost, XGBoost, LightGBM, Random Forest | [Notebook](#) [Rank 44 / 1484 participants](#) | Dec 2022
- Merit based scholarship:** Received recognition for outstanding academic accomplishments by UC Berkeley.
- MTA Introduction to Programming Using Python - Certified 2020 (82%) [Credentials](#)
- Coursera - ChatGPT Prompt Engineering for Developers, Understanding and Applying Text Embeddings with Vertex AI [More certificates](#)