Sarthak Vajpayee

Dallas, TX-75248 | (469) 347 9198 | sxv220020@utdallas.edu | LinkedIn | Portfolio website

EDUCATION

The University of Texas at Dallas, Texas 05/2024
Master of Science, Business Analytics (Jindal School of Management)
Courses: Applied Machine Learning, Advance Statistics, Data Analytics, Business Analytics, Predictive Analytics, Prescriptive Analytics, Database Foundations, Linear Algebra, Calculus, Deep Learning Algorithms
Academic awards: **Dean's Excellence Scholarship** (*Jindal School of Management*)

JSS Academy of Technical Education, Noida, India 06/2018
Bachelor of Technology, Electronics & Communication Engineering **GPA 3.04**

SKILLS

Certifications: **Google Cloud:** Advanced machine learning on Google Cloud specialization
Coursera: Deep-learning specialization
Stanford University: Machine learning
Analytics Tools: Excel, PowerBI, Plotly, matplotlib, seaborn
Programming: Python, R, MySQL, MongoDB
Libraries: Scikit-Learn, Spacy, NLTK, Tensorflow, Keras, PySpark, PyTorch, XGBoost
Software: Git, Docker, OpenCV, AWS, Azure, Google Cloud Platform
Personal Skills: Time management, empathy, multi-cultural fluency, critical thinking, resilience

PROFESSIONAL EXPERIENCE

Ernst & Young Global Limited – Bengaluru, India 12/2021 - 07/2022
Senior Data Scientist

- Achieved over **90% accuracy** and under **15% bias** with a predictive model for the 3rd largest FMCG company, outpacing past demand planning methods in the Nordics Market.
- Delivered Gen-2 version (70% Volume and SKU coverage) for the Norwegian market with over **92% accuracy** within 15 days, benchmarking among European, South-East Asian, and South American markets.
- Analyzed **sporadic time-series data** to extract demand insights using **EDA, regression, and variation analysis**, including sales history, trends, events, promotions, volume, and market impact.

Applied Roots – Hyderabad, India 09/2019 - 11/2021
Machine Learning Engineer

- Created and managed six ML/DL projects on Applied Roots, mentored over **8000 students**, and graded their Python assignments on the e-learning platform.
- Contributed to **YoY revenue by 100%** through NLP techniques like Word-to-Vector, Code-to-Vector, Pre-trained Language Models, and LSTM for developing a **plagiarism checker** on the e-learning platform.

PROJECT EXPERIENCE

Stellenbosch University – Stellenbosch, South Africa 03/2021 - 11/2021
Research Project Assistant

- Achieved specificity, sensitivity, AUC, and accuracy scores of 0.9, 0.93, 0.96, and 92.78% resp. Using the RESNET-50 model, making COVID-19 diagnostic through this tool **on par with the RT-PCR test.**
- Designed, trained, fine-tuned, and validated several **deep-learning** and **transfer-learning** based models such as **MLP, RNN, CNN, VGG-16**, and **RESNET-50** for predicting COVID-19 using patient's cough audio.

COMPETITION EXPERIENCE

- **Kaggle**: Mercari Price Suggestion Challenge, scored in the ***Top 6%*** *using only* ***linear models.***
- **Kaggle**: Google Q&A Labeling Challenge, ***Top 4.4%*** *using* ***Transfer Learning Ensembles***