

Sarthak Vajpayee

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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**