

Prasad Mahamulkar

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EDUCATION

M.Sc. Data Science and Analytics, *Cardiff University*

September 2021 – January 2023

Coursework: Computational Data Science, Applied Machine Learning, Data Visualisation, Foundation of Statistics, Cloud Computing, Operation Research and Analytics.

Bachelor of Engineering, *Pune University*

June 2014 – July 2019

SKILLS

Programming: Python, SQL, and R programming

Tools: Excel, GitHub, Power BI, Tableau, Linux, Azure, AWS, Google Cloud Service

Machine Learning: Statistical Analysis, Hypothesis Testing, Regression Analysis, Classification Techniques, Probability Distribution, NLP, Time Series Forecasting, Deep Learning, LLM

EXPERIENCE & PROJECTS

Data Scientist, *Climate Change Social Transformation*

June 2022 – November 2022

- Collaborated with a research team of 5 members to determine the impact of climate change on United Kingdom residents.
- Developed a Python script to extract, transform, and load (ETL) the data from various sources, resulting in a 35% reduction in data collection time.
- Executed NLP techniques, including tokenization, stemming, lemmatization, and vectorization, resulting in a 70% improvement in data quality.
- Designed and modelled 2 machine learning algorithms to determine the sentiment polarity (positive, negative, and neutral) of data.
- Created data visualisations using Tableau and presented project findings to 30 non-technical audiences during the annual seminar.

Stock Price Prediction, *Academic Project*

February 2022 – May 2022

- Extracted historical stock price data using the Yahoo Finance API for Standard and Poor's (S&P) 500 companies.
- Implemented 3 ML models using Python libraries such as Pandas, NumPy, NLTK, Scikit-learn and Keras to predict close prices.
- Received recognition from the supervisor for achieving a 12% enhancement in model predictions using a sentiment probability distribution for each day.

Insurance Cross-Sell Prediction, *Academic Project*

November 2021 – January 2022

- Applied statistical analysis and hypothesis testing to identify key factors influencing insurance cross-selling success with a 95% confidence level.
- Deployed 3 machine learning models to predict insurance cross-selling success using Pandas, NumPy, Matplotlib, Seaborn, and Scikit-learn.
- Utilised data imputation and feature engineering techniques on 30,000+ customer data sets, resulting in a 9% improvement in model accuracy.

Data Analyst, *ADDICOR Technologies*

August 2020 – July 2021

- Worked with a cross-functional team on different industry projects to provide data-driven solutions to clients.
- Conducted in-depth data cleaning and data analysis on large data sets using Excel, SQL, and Python, resulting in a 50% improvement in decision-making.
- Built dashboards to visualise Business KPIs for different projects using Power BI, saving 10 hours per week of manual reporting time.

OTHER EXPERIENCE

Customer Service, *Creams Café (part-time)*

February 2022 – July 2023

- Achieved a 90% customer satisfaction rate by addressing and resolving complaints and served 100+ customers daily in a fast-paced environment.

Production and Quality Analyst, *Sagar Industries*

June 2019 – July 2020

- Communicated with production teams to plan daily tasks, leading to a substantial increase in the production rate by 35%.