

VIJAY SUNDARAM MOHANA

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Education

The University of Sheffield

Sept 2022 – Sept 2023

MSc in Computer Science with Speech and Language Processing

Sheffield, UK

Key Modules: Machine Learning & Adaptive Intelligence, Scalable Machine Learning, Text Processing, Natural Language Processing, Speech Processing, Speech Technology

International Institute of Information Technology Bangalore

July 2021 – Aug 2022

Executive PG Programme in Machine Learning and Artificial Intelligence

Bengaluru, India

Key Modules: Statistics Essentials, Machine Learning, Deep Learning and Neural Networks, Natural Language Processing, Reinforcement Learning

Manipal Academy of Higher Education

July 2016 – June 2020

Bachelor of Technology in Electrical and Electronics Engineering

Manipal, India

Key Modules: Engineering Mathematics

Skills

Programming: Python (pandas, NumPy), SQL

Analytical Tools: MS Excel (VLOOKUP, Conditional Formatting, Pivot Tables), Power Query Editor

Visualization: Microsoft Power BI, Jupyter Notebook/Google Colab (Matplotlib, seaborn, Plotly), Excel Charts

Database: MySQL (MySQL Workbench)

Software: GitHub, JIRA

Soft Skills: Communication, Presentation, Story-telling

Experience

Accenture Solutions Private Limited

Dec 2020 – Dec 2021

Application Development Associate

Bengaluru, India

- Executed QA testing for Web and Mobile Apps, optimizing functionality and ensuring compatibility
- Studied requirement specifications, creating effective test cases for comprehensive evaluation
- Performed regression testing, resolving defects post-code changes, ensuring system stability

Projects

Words Betray: Enhancing Online Review Trustworthiness with ML and NLP (Academic) Jun 2023 – Sept 2023

- * Conducted cross-domain model transfer analysis using Python, investigating fake review detection performance
- * Evaluated textual and behavioral features' impact on fake review models, achieving a 73.04% accuracy
- * Incorporated sentiment analysis, leveraging NLTK and VADER, resulting in a 0.8% accuracy boost in the models

YouTube Data Analysis | Python, Youtube API

Dec 2023

- * Analyzed YouTube video data of 10 prominent travel channels, leveraging Python and NLP for insights into content performance
- * Generated 2 datasets using YouTube API, conducted EDA, and reported key findings on channel engagement, titles, and viewer interaction
- * Presented visualizations with tools like wordcloud, seaborn, and plotly, to communicate trends and strategies for travel content creators

Music Store Analysis | SQL

Nov 2023

- * Implemented SQL to extract data from 11 tables for comprehensive insights into the music store data using JOIN and Subquery
- * Modified and filtered data by using aggregating and filtering function to improve reporting process
- * Unveiled sales patterns, customer behaviours, genre and artist popularity, global trends, playlists, and employee dynamics in the music industry

Bank Customer Churn Dashboard | *Microsoft Power BI*

Nov 2023

- * Created a dashboard with Power BI to gain insights into RBC Bank's customer churn
- * Transformed and processed the datasets by using DAX to ensure data completeness and validity
- * Identified key metrics, visualized insights, and optimized presentation using slicers

Zomato Restaurants Analysis | *Python*

Oct 2023

- * Employed Python for restaurants data analysis, conducting city, cuisine, and dining type analysis to guide strategic decisions
- * Utilized seaborn for visualizations, revealing insights into customer preferences and optimizing menu planning
- * Leveraged plotly for interactive price range analysis, determining optimal pricing strategies for restaurant success

Certifications

Microsoft Excel - Excel from Beginner to Advanced

Dec 2023 – Present

Udemy

Kyle Pew, Office Newb

Key Topics: Data Entry and Formatting, Basic Formulas and Functions, Data Sorting and Filtering, PivotTables, VLOOKUP and HLOOKUP, Excel Charts

Microsoft Power BI Desktop for Business Intelligence

Nov 2023 – Dec 2023

Udemy

Maven Analytics

Key Topics: Connecting & Shaping Data, Creating a Relational Data Model, Adding Calculated Fields with DAX, Visualizing Data with Reports, Artificial Intelligence Tools

Statistics for Data Science and Business Analysis

Oct 2023

Udemy

365 Careers

Key Topics: Descriptive Statistics, Inferential Statistics, Hypothesis Testing, Distribution, Confidence Interval, Regression Analysis