

# VIJAY SUNDARAM MOHANA

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## Education

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### 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

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**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

## Experience

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### 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

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### 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**

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### **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