JUHI JADHAV

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PROFILE

A versatile GIS Data Engineer with broad experience who possesses both the technical and soft skills needed for data engineering. Data Science postgraduate student from Nottingham Trent University UK, seeking challenging opportunities in the field of Data Analyst or Data Science, with active involvement in Python Programming; Machine Learning. Confident with an array of programming languages (Python, C#, SQL, AWS, AI, HTML). Seeking opportunities in the UK to leverage technical expertise and reinforce data skills.

WORK EXPERIENCE

University of Nottingham   **Nottinghamshire, UK**
Staff   **July 2023 to Present**

Mobile Shop   **Nottinghamshire, UK**
Sales Operative   **May 2023 to June 2023**

Memsaab Hotel   **Nottinghamshire, UK**
Catering Assistant   **March 2023 to May 2023**

Greencore   **Manton Wood, Nottinghamshire, UK**
Part Time Production Operations   **October 2022 to February 2023**

HERE SOLUTIONS Pvt. Ltd.   **Mumbai, India**
GIS Data Engineer   **10th April 2018 to 16th August 2022**

➢ My experience as a GIS Data Engineer has allowed me to successfully visualise and interpret geospatial data by doing spatial data analysis using GIS programmes like ArcGIS and QGIS. I have used remote sensing methods using FME to collect and analyse data from satellites and other remote sensing platforms, as well as spatial databases for storing and managing geographic data. Able to create complicated queries against both relational and non-relational data stores because to my strong SQL abilities in Oracle and MySQL and familiarity with NoSQL databases like MongoDB, which makes for effective data retrieval and analysis.

➢ Knowledge of data warehousing, data clean-up, integration, mining, and transformation ensures business requirements for scalability, performance, and reliability are met, while creating visually compelling dashboards and reports to help stakeholders understand key metrics and insights. Excellent understanding of machine learning methods and algorithms, as well as

practical knowledge of API data and automation.

➢ Working with cross-functional teams to create and deploy data solutions that fulfil their goals while protecting data privacy and security. Experience with cloud computing technologies, such as AWS and Google cloud.

EDUCATION

Nottingham Tent University	**Nottingham, UK**
Master of Science in Data Science	September2022- Present
MES Pillai College of Engineering	**Mumbai, India**
Bachelor of Engineering in Electronics and Telecommunication Engineering	2014-2017
Vidyalankar Polytechnic	**Mumbai,India**
Diploma in Information Technology	2010-2014
Convent Girls High School	**Mumbai,India**
High School	2009-2010

PROJECTS

Project 1: Anomaly Traffic Detection Using Smart Home Devices using AI   **September 2023**
Brief description of the Project

This project's goal is to identify and analyse home invasion attacks. My responsibility was to perform analyses to identify and develop trends and patterns for the raw data including time series and clustering approaches, Isolation Forest, Random Forest, Once Class SVM, Linear Outlier Model.

Programming Language: Python || IDE: Jupyter Notebook, Excel, Wireshark.

Project 2: Categorial Prediction and Analysis of Wine Quality   **May 2023**
Brief description of the Project
Used Linear Regression model, CNN(Convolutional Neural Network) Modelling, Random Forest Classifier, Multilayer Perceptron and Clustering Techniques to make best possible predictions and pre-processed the/analysed the Wine Dataset, visualized the data to check the distribution and correlation of variables.

Programming Language: Python || IDE: Jupyter Notebook.

Project 3: Predictions of Diabetes Using R Programming   **March 2023**
Brief description of the Project
Used Linear Regression model to analyze the Pima India Diabetes Dataset, visualized the data to check the distribution and correlation of variables, carried out T Test for each variable and predicted the missing values.
Programming Language: R || IDE: R Studio.

Project 4: Bank Management System using C#   **December2022**
Brief description of the Project

The concept of this project is used to create an online bank management system for the customers tologin with their username and password to check their transaction history like withdraw, deposit withthe help of some advanced features like functions and methods. This data was kept in a separate database for each customer on server side for the record purpose.

Project 5: Customer Segmentation Analysis   **November 2021**
Brief description of the Project
To classify customers based on their purchasing habits and preferences, a customer segmentation analysis was carried out using SQL and Excel. Created interactive reports that highlighted client categories and the demographics that matched them, enabling marketing teams to better adapt their

campaigns.
Customer engagement and retention both rose by 25% and 30%, respectively, because of the customer segmentation analysis.

Project 6: Places and Global Program (Here Technology Pvt. Ltd.)   **February 2019**
Brief description of the Project
Used **Feature Manipulation Engine (FME), AWS and Hadoop** for extracting, transforming, and loadingthe big data of geographical locations. Also worked on data automation and format coordinate conversion using the FME server. Also worked on **UAT (User Acceptance Testing)** environment for testing the data to know the exceptions.

Project 7: Advance Lane Content (Here Technology Pvt. Ltd.)   **November 2018**
Brief description of the Project
Tool Used: Earth Escape; Divided the map into grids and aligned the lane of each grid through complex coding.

Project 8: Global Content Operation (Here Technology Pvt. Ltd.)   **April 2018**
Brief description of the Project
Used **Map Creator** and **Atlas Tools** for adding, updating, and removing the points of addresses (places on HereWeGo Map) and links (roads on HereWeGo Map). Also handled customer escalations.

Project 9: Operational Efficiency Reporting: (Here Technology Pvt. Ltd.)   **April 2018**
Brief description of the Project
Developed a series of operational efficiency reports using reporting tools such as Power BI and Excel to monitor and evaluate key processes across various departments.
Collaborated with department heads to identify areas for improvement and presented actionable insights to streamline workflows and reduce operational costs.
The operational efficiency reports contributed to a 15% increase in overall productivity and reduced operational errors by 25%.

Project 10: Car Overspeed Detection using Alarm System   **January 2016**
Brief description of the Project
The mechanism consists of IT transmitter- receiver pair that work in combination for vehicle detection purposes. Depending upon this time it now calculates vehicle speed as well as displays this on an LCD display. The system also sends this data wirelessly. It sounds a buzzer alarm if an overspeed vehicle is detected.

Project 11: TV remote as wireless mouse for PC   **March 2014**
Brief description of the Project
The main goal of the project is to control mouse cursor with TV remote. This is done with the implementation of Sony remote on an Atmega8 L-8PU microcontroller. Here the IR receiver is connected to the microcontroller. The microcontroller is connected to the pc through a USB port.
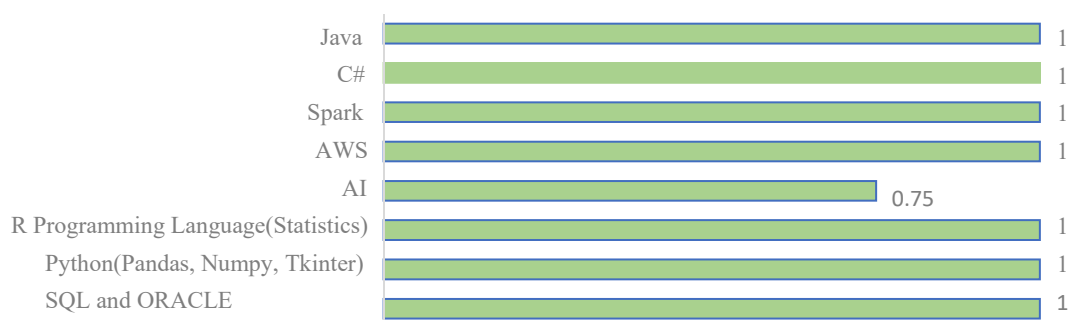
TOOLS and SOFT SKILLS

Tools
- XML Creation
- Confluence
- Power BI
- MS Excel
- FME Tool
- ArcGIS Pro
- ArcGIS Online

Soft Skills

• Scrum master | Gathering and Designing the requirements. | Testing quality assurance| Deployment and feedback.

• SQL querying and data manipulation using Oracle, MySQL, and PostgreSQL

• Data visualization using Tableau, Power BI, and Excel.

• Statistical analysis and modeling using R and Python

• Data cleaning and preparation using Python and Excel

• Familiarity with machine learning algorithms and techniques

• Project Management tools like Jira, Agile Methology

• Experience with data warehousing and ETL processes with a strong problem-solving and analytical skills. Knowledge of cloud-based technologies such as AWS, Azure, and Google Cloud to design and implement scalable data infrastructures.

TECHNICAL SKILLS

Skill	Value
Java	1
C#	1
Spark	1
AWS	1
AI	0.75
R Programming Language(Statistics)	1
Python(Pandas, Numpy, Tkinter)	1
SQL and ORACLE	1

ADDITIONAL INFORMATION

Extra-Curricular

Languages

- Coaching and mentoring
- Volunteering and participating in the community.   English: Fluent
- Organizing events or activities   Hindi: Fluent
- Attending social or business events   Marathi: Advance
- Learning to code or working on personal coding projects that demonstrate technical skills.

CERTIFICATIONS

- Teamwork Foundations
- Learning Power BI
- Writing with Impact
- ETL and ELT in PostgreSQL