# AJAY MOHANDAS

**Data Scientist | Senior Associate Consultant**

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📅    Date of birth: 05.01.1996

Git |    https://github.com/ajayvmohandas

## SUMMARY

Data scientist with 4 years of experience at Infosys Limited, specializing in developing impactful data-driven solutions for US clients. Adept in statistical analysis, machine learning, natural language processing and data visualization, with a strong technical background in Python, SQL, and Power BI. Proven success in turning complex data into actionable insights, driving positive business outcomes.

## WORK EXPERIENCE

**Apr 2022 – Present**

**Senior Associate Consultant,** Infosys Ltd

- Worked on development of multiple applications in Palantir cloud for a leading airline company, supporting data analysis, flight operations, and other business functions.
- Developed an AI-based application on Palantir Cloud that utilized AI models to provide optimized results to users and allowed for manipulation of maintenance programs to reduce flight delay.
- Handled data ingestion and preprocessing, including the creation of pipelines for raw data extraction and transformation using Magritte agents and PySpark.

**Jul 2020 – Mar 2022**

**Technology Analyst,** Infosys Ltd

Led diverse projects encompassing productivity optimizations, AI implementation, R&D, customer sentiment analysis and sales analytics for a major technology client.

**Testcase Prioritization**

- Prioritized the testcases using Lstm and Neural network models based on the severity level
- Built an interactive web UI for data Visualization using python and Dash Plotly framework.
- Successfully reduced daily testing time by 25% through streamlined test case prioritization and enhanced data visualization techniques.

**Text Processing and Sentiment Analysis**

- Led the development and implementation of advanced NLP algorithms, utilizing robust text processing techniques, web scraping, and data analysis to extract valuable insights from extensive customer feedback data.
- Conducted sentiment analysis on the collected customer reviews, ensuring accurate results through data cleaning, preprocessing, and analysis.
- Identified key trends and patterns in customer sentiments, providing actionable recommendations to enhance customer satisfaction and drive informed business strategies.

**Rasa Chatbot for ticket management**

Engineered a chatbot for ticket and response management, utilizing the Rasa framework and deep learning techniques.

**Incident Management using AIOps**

- By Analyzing the event log data, using ML model and NLP techniques, developed an incident response system which were able to produce auto resolution for similar incidents, handle duplicate incidents, auto update the incident raised by Alert monitoring system.

| Mar 2019 – Jun 2020 | **Senior Engineer,** Infosys Ltd |
|---|---|

**Image Detection: Vehicle Detection and Counting using YOLO and OpenCV:**
- Implemented vehicle detection and counting algorithms using YOLO and OpenCV, achieving accurate and efficient results.
- Optimized the models for real-time performance, enabling effective analysis of vehicle presence and count.

**End-to-End Deployment of Machine Learning Projects**
- Successfully deployed machine learning projects using Python, Flask, GitHub, Heroku, and Postman, ensuring smooth integration and scalability.
- Developed reliable and efficient APIs with Flask to enable seamless model inference and data processing, facilitating convenient access and utilization.

## TECHNICAL SKILLS

- **Cloud knowledge:** Azure, Palantir
- **Machine Learning:** Supervised Learning, Unsupervised Learning, Time Series Analysis
- **Deep Learning:** CNN, RNN, LSTM, LLMs
- **NLP:** NLTK, Transformers, BERT, spaCy, BeautifulSoup, NER
- **Programming Languages:** Python, Typescript
- **Palantir:** Data integration, ETL, Pipeline Management, Data Lineage, Code Repositories
- **Database Language:** SQL, MySQL
- **Web Development:** Flask
- **Version Control:** Git, GitHub
- **Big Data:** PySpark, Hadoop
- **Data Visualization:** Power BI, Dash Plotly
- **Tools:** Sklearn, Keras, TensorFlow, NumPy, pandas, Matplotlib, seaborn, OpenCV

## EDUCATION

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|---|---|
| Executive PGP in Machine Learning & Artificial Intelligence International Institute of Information Technology, Bangalore | 2023 – Ongoing |
| Bachelor of Technology – Mechanical Engg\| CGPA 7.18/10 School of Engineering, CUSAT, Ernakulam, Kerala | 2014 – 2018 |
| Higher Secondary Education (12th Class) CBSE \| Percentage 82.8/100 Bappuji Senior Secondary School, Kerala, India | 2011 – 2013 |
| Secondary Education (10th Class) CBSE \| CGPA 8.6/10 Bappuji Senior Secondary School, Kerala, India | 2009 – 2011 |

## CERTIFICATIONS, TRAININGS & ACHIEVEMENTS

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|---|---|
| 13-08-2022 | **Microsoft Certified: Azure Data Scientist Associate** |
| 01-10-2021 | **Selected for Infosys Acon Bridge Program** |
| 18-09-2021 | **Infosys Certified Data Science Professional** |
| 09-05-2021 | **Infosys Certified Machine Learning Professional** |
| 13-06-2021 | **Infosys Certified Python Associate** |
| 04-2017 – 03-2018 | PARTICIPATED IN **TDC 2018** ROLE -VICE CAPTAIN Managed a team of 25 students for the national level competition **TDC -2018** conducted by **SOCIETY OF AUTOMOTIVE ENGINEERS, INDIA** |
| 2012 – 2013 | INDIVIDUAL CHAMPIONSHIP at **ANNUAL SPORTS MEET** 2013 & 2012 |

# DECLARATION

I do hereby declare that the above furnished details are correct to the best of my knowledge

Date: 15.11.2023                                                                 AJAY V M

Place: Palakkad