

Harishkumar Jagadeesan

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CAREER OBJECTIVE

Results-driven Data professional with 3.5 years of expertise in **data analysis, machine learning, cloud computing, and business intelligence**. Proficient in **Python, SQL, NLP**, and **data visualization** tools like **Power BI, Qlik Sense, and Tableau**. Skilled in stakeholder engagement, cross-functional collaboration, and delivering end-to-end data-driven solutions. Currently expanding expertise in **LLMs, BI and cloud technologies**. Eager to contribute to data-centric teams building scalable, AI-powered applications.

EXPERIENCE

PR Digital and Services Ltd

Mar 2025 – Aug 2025

Data Analyst (Contract)

London area, United Kingdom

- Delivered reporting and dashboard solutions using **Power BI** and **Snowflake** to support internal data transformation.
- Designed and implemented custom and ad-hoc dashboards for **SumUp's Merchant/Customer Pricing Area**, streamlining performance tracking.
- Conducted **requirement gathering** sessions with finance and commercial teams to capture **KPI** needs and report logic.
- Partnered with business leads to ensure data solutions aligned with internal **data governance** and compliance standards.
- Led a temporary data audit project to validate customer pricing metadata, resolving over **300 inconsistencies**.
- Collaborated with developers to create **reusable Power BI templates**, reducing rework and enhancing consistency across reports.
- Executed **data normalization routines** to standardize merchant names, countries, and payment codes, enabling accurate aggregations.

Kanini Software Solutions

Oct 2022 – Aug 2023

Associate Data Scientist

Chennai, India

- Developed and deployed machine learning models to support decision-making for healthcare and internal analytics use cases.
- Conducted **exploratory data analysis (EDA)** and **feature engineering** using Python (Pandas, NumPy, Scikit-learn), improving model interpretability and accuracy.
- Contributed to a smart template initiative within the **Cerner Healthcare platform**, integrating predictive elements using **CCL** to enhance patient data insights.
- Architected and deployed a full-stack NLP pipeline to derive insights from **2M+ customer** feedback entries, achieving a **92% F1-score** in sentiment analysis using fine-tuned DistilBERT.
- Engineered data ingestion workflows with Snowflake SQL, Pandas, and NLTK, reducing **text preprocessing** time by 40%.
- Evaluated baseline classifiers (Logistic Regression, XGBoost) and boosted accuracy by 17% via transfer learning with Hugging Face's DistilBERT in PyTorch.
- Mentored 2 junior analysts in NLP model tuning and documentation practices during **internal upskilling initiative**.
- Conducted **collaborative discovery sessions** with internal stakeholders to identify analytical gaps and frame predictive use cases.
- Reduced manual data labeling by **65%**, allowing business analysts to focus on high-impact customer retention strategies.

Tata Consultancy Services

Apr 2021 – Oct 2022

Data Analyst

Chennai, India

- Led the development of a comprehensive data reporting tool to provide an end-to-end view of customer, service, orders, and billing details for customers. Utilized **Qlik Sense** to create dynamic visualizations, ensuring accurate reporting and improved decision-making across departments. [Qlik Sense]
- Developed a scalable web application for the **Retail Price Index (RPI) project**, addressing business requirements for large-scale price changes across fixed product portfolios.
- Implemented complex **SQL scripting** to generate analytical insights for pricing models and financial reporting.
- Spearheaded bug fixing and enhancement initiatives for the **Vodafone Pulse Connect/Apollo web platform** (Vodafone UK client), significantly improving web functionality and reducing page load times through optimized React Js and Qlik Sense Mashup implementations.

Purple Slate

Jan 2020 – Sept 2020

Technical Development Engineer

Chennai, India

- Gained significant hands-on knowledge of Web Technologies from experienced developers (Intern period)
- Assisted in developing and implementing web applications using React-Js.
- Upgrading the web-pages of VCA application with React-Hooks.

TECHNICAL SKILLS

Programming: Python (NumPy, Pandas, Scikit-learn, TensorFlow), R, C, HTML/CSS, React Js, REST APIs

NLP & GenAI: BERT, Transformers SpaCy, NLTK, Transfer Learning, Text Classification, Sentiment Analysis

Visualization Tools: Tableau, Power BI, Qlik sense, Microsoft Excel

Database & Cloud: MySQL, Oracle SQL, Azure (Foundation + AI Associate engineer)

PERSONAL PROJECTS

FIFA players - Complete analysis of FIFA-2019 players / *Tableau*

[Tableau Link](#)

- Created a visualization dashboard using Tableau which shows the complete analysis of FIFA 2019 players.
- Dynamic visualizations include skill comparison between two players, Top players by position, players and their club details and top 5 players by skills.
- Data Source - Kaggle

Groundwater Quality Classification and Risk Assessment / *Python, Machine Learning*

[Git Link](#)

- Developed and deployed machine learning models (XGBoost, Random Forest, SVM, Logistic Regression) to predict groundwater quality across India, achieving up to 97.13% accuracy with **XGBoost**.
- Built a Water Quality Index (WQI) risk-scoring algorithm for classifying water quality into categories like Excellent, Good, Moderate, and Poor using key parameters such as pH, temperature, and conductivity.
- Conducted data preprocessing, including handling missing values, outlier detection, and feature scaling to ensure dataset reliability and model performance.
- Implemented cross-validation and fine-tuned hyperparameters using **GridSearchCV**, improving recall for minority classes, such as 'Moderate' and 'Poor' quality.
- Visualized geospatial water quality data through Choropleth maps, enhancing the geographical understanding of groundwater contamination risks.
- **Technologies used:** Python, scikit-learn, XGBoost, Random Forest, SVM, Pandas, NumPy, Matplotlib, GeoPandas.

Text Classification and Clarity Analysis / *Python*

[Git Link](#)

- Developed and evaluated machine learning models using **Random Forest**, **Gradient Boosting**, and **BERT-based sequence** classification.
- Implemented topic classification using textual features and entity recognition with performance metrics surpassing baseline models.
- Built a **text clarity classification** prototype using Logistic Regression with **TF-IDF vectorization** and **BERT**, achieving 78% accuracy.
- Conducted data preprocessing: data cleaning, encoding, and splitting for balanced training/testing datasets.
- **Technologies used:** Python, scikit-learn, BERT, Pandas, NLTK, SpaCy, TensorFlow, and GridSearchCV for hyperparameter tuning.

Burger Builder / *React Js, Redux, Router, Hooks*

[WebApp Link](#)

- Developed a web-application using the React
- Utilized Google Firebase for the data management which includes the user's credentials, details and orders made.
- Users can register, login and make their burgers and place the order with this user-friendly application.

EDUCATION

University of Greenwich

Master of Science in Data Science

Sept 2023 – Sept 2024

Greenwich, United Kingdom

Karpagam College of Engineering

Bachelors in Electronics and Communication Engineering

Aug 2016 – Apr 2020

Coimbatore, India

CERTIFICATIONS

Microsoft: [Power BI Data Analyst Associate](#) , [Azure Fundamentals](#)

Udemy: React - The Complete Guide (incl Hooks, React Router, Redux) (2023)

Udemy: MasterCourse in Tableau and 2020 for Business Intelligence (2021)