

Kumareshan Subramaniyan

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Summary

Data Scientist with over 3 years of experience designing and implementing data pipelines, machine learning models, and cloud-based solutions. Proficient in Python, SQL, and workflow automation using tools such as Docker and CI/CD. Hands-on experience in building classification and forecasting models, integrating them into production environments, and improving data processing efficiency. Background includes projects in finance, privacy analysis, and government-related datasets. Seeking a role focused on improving data infrastructure and supporting decision-making through applied machine learning and analytics.

Experience

Monash University

Jan 2025 – Jun 2025

Data Scientist · Full-time

- **Designed and deployed** an AI-enabled privacy analytics platform that **processed data** from 100+ mobile apps, reducing manual analysis time by 60%.
- **Constructed NLP(Natural Language Processing) pipelines using LLM's(Large Language Model)** to summarize legal text and permissions, improving user comprehension of privacy risks by 95%.
- **Performed exploratory and cluster analysis** using Pandas, PCA, and Plotly to identify permission-risk patterns across app categories.
- Orchestrated scalable workflows using FastAPI, PostgreSQL, and Docker to deliver real-time queries and interactive data dashboards.

Deloitte Consulting USI

Aug 2020 – Jul 2023

Consultant · Full-time

- **Engineered RESTful APIs and Web Apps** with React.js, TypeScript, and Spring Boot, enabling 500K+ users and preventing \$200M+ in potential losses.
- **Automated microservices and ETL pipelines** using Python (NLTK, NumPy, TensorFlow) to increase processing efficiency by 30%.
- **Transformed MSSQL data into Power BI dashboards** via Docker, Azure, Argo Workflows, SQLAlchemy, and RabbitMQ, boosting accessibility by 40% and reducing downtime by 25%.
- **Directed Agile delivery across cross-functional teams**, completing projects 10% ahead of schedule and earning Deloitte's 'Excellence' and 'Applause' awards.

Intentico.ai

Jan 2020 – Jul 2020

Data Science Intern · Internship

- **Streamlined ML workflows by automating data collection and preprocessing** in Python and SQL, reducing model preparation time by 40%.
- **Implemented classification models** and evaluated them with **precision, recall, and F1 score** to improve output quality and stakeholder trust.
- **Collaborated with the Principal Data Scientist** to co create chatbot **Proof of Concepts** and core features for an AI platform, contributing to \$500K+ in new client contracts.

Skills

Programming Languages and Technologies: Python, JavaScript, SQL, PowerBI, Azure Cloud, Kubernetes, Docker, AWS, MongoDB, React JS/TS, Argo Workflows, Tableau, R Programming, D3.js, Java, PySpark, Hadoop, Git (Version Control).

Data Science: Predictive Modelling, Classification Modelling, Statistical Modelling, AI Data Annotation, Big Data Analytics, Data Visualization, MLOps, Machine Learning Algorithms.

Soft Skills: Communication, Persistence, Ability to Work independently, Collaboration, Self Driven, Committed.

Education

Monash University	Jul 2023 – Jun 2025
Masters · Data Science · Melbourne, Australia	
<ul style="list-style-type: none">Completed coursework in Machine Learning, Big Data Processing, Statistical Analysis, Advanced Data Analysis, Data Wrangling, Project Management and Data Visualization.Applied predictive modeling and data wrangling techniques across academic projects focused on large scale analytics and machine learning.	
CMR Institute of Technology	Jun 2016 – Jul 2020
Bachelors · Information Science and Engineering · Bangalore, India	
<ul style="list-style-type: none">Studied core subjects including Machine Learning, Cloud Computing, Python Programming, Data Structures, Algorithms, and Object-Oriented Programming.Built scalable academic projects by applying automata theory, algorithm design, and object-oriented principles.	

Projects

Hydrology Dashboard GitHub Repo	Mar 2025 – May 2025
· Python, Next.js, Typescript, Fast API, Railway, ARIMA Forecasting	
<ul style="list-style-type: none">Created an interactive dashboard using Python and Plotly to visualize streamflow trends, forecast water availability, and assist in environmental planning.	
Trustiee App Website	Jan 2025 – Jun 2025
· Python, Vue.js, PostgreSQL, Pandas, NumPy, Railway	
<ul style="list-style-type: none">Built an AI driven privacy platform that summarizes legal text and app permissions using LLMs, delivering insights for 100+ mobile applications.Won The First Place Award at Monash University Industry Expo	
Loan Default Prediction System GitHub Repo	Feb 2024 – Jun 2024
· Python, PySpark, Apache Kafka, Apache Hadoop	
<ul style="list-style-type: none">Developed an analytics dashboard that integrates big data ingestion, feature engineering, ML models, and customer segmentation for loan risk analysis.	
2D Map generating Autonomous Rover	Oct 2019 – May 2020
· Python, ReactJS, RaspberryPi, Heroku, Matplotlib, SLAM	
<ul style="list-style-type: none">Designed a fully autonomous rover using 2D LIDAR and SLAM for indoor mapping, with real time Python processing and ReactJS frontend for remote visualization.	

Certifications

Explorative Data Analysis	Advanced Data Analytics	Machine Learning
IBM	Google	Stanford University (Coursera)
Data Science	Internet of Things	
IBM Cognitive Class	Bolt IoT	

Publications

Big Data Analysis in the Finance Sector Weblink	Aug 2022
IJARESM	
Smart Street Lamps using Piezoelectric and Thermoelectric Energy Harvesting	Mar 2021
Scopus Index International Journal	

Achievements

- Co-Founder of The Lazy Editor, an initiative that enhances content quality and accessibility through technology.
- Division Level and State Level Football (Soccer) player.
- Won 1st place for ‘Trustiee’ at Monash university Industry Expo.
- Received Excellence and Applause Awards at Deloitte.