ABIJITH SUBRAMANIYAN KUNNATH

Master of Data Science (Business Intelligence) | Bachelor of Engineering (Computer Science)

LINKEDIN | 0430019454 | abijith.subramaniyan@gmail.com

ABOUT ME

Motivated and adaptable Data Science postgraduate with a background in Computer Science Engineering and **experience in both IT and customer-facing roles. Seeking a Data Analyst or Data Science/Engineering position** to apply **analytical thinking, technical skills**, and a strong work ethic to deliver impactful insights and grow in a dynamic, innovation-driven environment.

EXPERIENCE

Retail Assistant , BWS | Kaleen, Canberra

2023 – Present

- Delivered prompt customer service, assisted with purchases and inquiries.
- Handled cash, stock, and daily store operations including opening/closing.
- Ensured compliance with RSA regulations and maintained store presentation.
- Assisted with inventory control and monitored theft prevention.

Systems Engineer, Tata Consultancy Services | Siruseri, Chennai

Client: Marks & Spencer (Retail – UK)

2020 – 2022

- Maintained and updated **large-scale retail datasets** (SKUs, pricing, inventory) across categories using **Excel and SAP**.
- Ensured **data integrity** through functional and regression testing across multiple SAP environments.
- Worked with cross-functional teams to resolve data issues and support **end-to-end validation**.
- Used **Jira** for ticketing, defect tracking, and coordinating agile workflows.
- Gained hands-on experience with **SAP ABAP**, **HANA, Retail module** and backend data flows enhancing data and delivery capabilities.

EDUCATION

Masters in Data Science, *Business Intelligence*
University of Canberra | 2023 – 2025

Bachelors in Engineering, *Computer Science and Engineering*
Velammal Engineering College | 2016 – 2020

PROJECTS

TyireEye™ – Driving Conditions Warning App

Capstone Project – Master of Data Science, University of Canberra
2024 – 2025

Role: Lead Developer
Technologies: Android Studio ,Kotlin, Jetpack Compose, BLE, FastAPI, Python, Scikit-learn

- Developed an Android application that predicts hazardous driving conditions using real-time sensor data
- Integrated Bluetooth-enabled tyre pressure sensors (TPMS) and Wheel Turtle to collect tyre temperature, grip, and surface feedback
- Designed and deployed a FastAPI backend hosting three ML models for predicting tyre inflation status, road condition, and grip score
- Engineered data pipelines for live sensor input, preprocessing, and buffered prediction using Random Forest models
- Built a dynamic UI with animated grip gauge and real-time alerts based on model outputs
- Implemented session logging, landscape/portrait responsiveness, and a single-screen wireframe UX
- Focused on model generalization across tyre types, road surfaces, and noisy data scenarios

Age Estimation with Magnetic Resonance Imaging Data Using PNN

Final Year Project – Bachelors in Engineering, Velammal Engineering College
2020

Role: Lead Developer
Technologies: Matlab, DWT, GLCM, Probabilistic Neural Network (PNN), MRI image data.

- Developed a machine learning model to estimate a person's age range using dental MRI image analysis for forensic applications
- Implemented preprocessing using Discrete Wavelet Transform (DWT) and extracted texture features via Gray-Level Co-occurrence Matrix (GLCM)
- Trained and validated a Probabilistic Neural Network (PNN) on 116 MRI samples, achieving an accuracy of 93.3% and specificity of 80%
- Published findings in the VDGOOD Journal of Computer Science Engineering, Vol. 222 (2020)

CERTIFICATIONS, SKILLS & INTERESTS

- **Certifications** - Microsoft Power BI Desktop for Business Intelligence, Web Development Bootcamp by Dr. Angela Yu, Study Australia Industry Experience Program, SAP ABAP, SAP HANA
- **Skills** - SQL, R, Power BI, Excel, HTML, CSS, SAP, ABAP, Java, Kotlin
- **Interests** - Weightlifting, Building Computers, Videogames, South Park