Arunthavaraj Ananthavel

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WORK EXPERIENCE

ACCENTURE PLC.
Chennai, IND

Application Development Analyst — Aug 2021 – Aug 2023

- Led the upgrade of 10+ SAP Basis systems, ensuring 100% SLA compliance and **zero downtime**, while managing HANA databases across 15+ SAP systems and executing **SQL - based CRUD** operations to maintain data accuracy and system performance.
- Created weekly **KPI dashboards with Power BI/Excel**, delivered performance reports for strategic planning, and implemented solutions that improved operational efficiency by 30%, enhancing stakeholder management and team collaboration.
- Cross-skilled across **SAP BASIS, HANA DB**, and **Solution Manager (SOLMAN)** including **CHARM** process to provide diverse technical support, and received multiple awards, including the Inspiring Innovator Award, Growth Catalyst Award, and Embracing Shared Success Award.

HATCH SCHOOL OF CODE
Chennai, IND

Coding Instructor — Aug 2020 – Aug 2021

- Facilitated **Python, R, and data science training** for 40+ students, incorporating real-world problems and hands-on projects, achieving a 95% learner satisfaction rate and strengthening programming proficiency.
- Engineered an automated tracking system to monitor student progress and attendance, refining data accuracy and improving learning efficiency by 50%.

SMAZEE SOFTWARE SOLUTIONS
Chennai, IND

Junior Software Intern — Nov 2019 – Dec 2019

- Developed an **Android** application with a **Firebase** backend, optimising response time by 70%, conducting usability testing to resolve critical bugs and enhancing reliability by 15%, while documenting technical workflows and facilitating knowledge transfer to enhance team collaboration and user experience.

PROJECTS

UNSUPERVISED MACHINE LEARNING OF RAINFALL – DISSERTATION (INDUSTRY PROJECT)
Sep 2024

- Collaborated with the **Met Office** to analyse rainfall categories and classify cloud types, leveraging high-resolution spatio-temporal climate data across the UK for enhanced meteorological insights.
- Employed unsupervised machine learning techniques (**DBSCAN**), **Hierarchical and K-means clustering** for **data segmentation, feature extraction**, improving precipitation forecasting and rainfall pattern recognition over a 100-year period (1980–2080).

PREDICTION OF ICO SUCCESS USING MACHINE LEARNING CLASSIFIERS
Mar 2024

- Implemented **AdaBoost** and **Random Forest** models to forecast ICO success with 85% accuracy, optimising fundraising strategies, while creating **Tableau dashboards** to visualise insights, enabling data-driven decisions and refining ICO campaign outcomes.

CUSTOMER CHURN ANALYSIS
Nov 2023

- Conducted customer churn analysis using **Python and SQL**, identifying key predictors with 95% accuracy, applying **logistic regression and decision tree** models to improve prediction accuracy by 25%, and developing **Power BI dashboards** to visualise churn metrics, driving a 20% increase in customer retention.

EDUCATION

UNIVERSITY OF LEEDS
Leeds, UK

*Master of Science in Data Science and Analytics (**2:1 Merit**)* — Sept 2023 - Sept 2024

- Relevant Coursework: Data Science, Statistical Theory & Methods, Statistical Learning, Business Analytics and Decision Sciences, Machine Learning in Practice, Deep Learning.

ANNA UNIVERSITY (PANIMALAR INSTITUE OF TECHNOLOGY)
Chennai, IND

*Bachelor of Engineering in Electrical & Electronics (**8.49/10 CGPA**)* — Aug 2017 - Aug 2021

ADDITIONAL

- **Tools & Frameworks**: Python | SQL | R | Tableau | Power BI | Excel | Scikit-learn | TensorFlow | PyTorch | SAP Basis | SAP HANA | SAP Solution Manager | Agile | Scrum | ITSM | Git | Jira | Microsoft PowerPoint | AWS |
- **Skills**: Data Analysis | Data Visualisation | Predictive & Prescriptive Analysis | Statistical Analysis | Machine Learning Algorithms & Models | Data Modelling & Mining | Data Management | Business Analysis | Business Intelligence | Agile SDLC |
- **Certifications:** AWS Certified Cloud Practitioner | Data Analytics and Visualization Job Simulation (Accenture) | SAP Certified Technology Consultant | Algorithmic Toolbox and Neural Networks Specialization (Coursera) | Microsoft Office Specialist: Excel Associate & Expert (Office 2019) |