Akassh Manikandan

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SUMMARY

Currently pursuing an MSc in Advanced Computer Science at the University of Leicester with hands-on experience solving business problems using machine learning, data visualisation, and portfolio analytics. I am actively seeking opportunities in performance measurement, attribution, and risk analysis within financial services. I have the right to work in the UK.

EDUCATION

MSc in Advanced Computer Science, 2:1 (Expected) | University of Leicester, Leicester | Jan 2024 – Jul 2025
- **Modules:** Machine Learning, Data Analytics, Software Engineering
- **Dissertation:** Designing 3D Visualisations of Human Emotions for Real-Time Interaction and Evaluation

B.E in Computer Science and Engineering, First Class with Distinction | Prathyusha Engineering College, Chennai | 2019 - 2023
- **Modules:** Artificial Intelligence, Database Management Systems, Distributed Systems
- **Final Project:** AI-Based Missing Persons Detection Using Facial Recognition

PROJECTS

3D-Emo: Designing 3D Visualisations of Human Emotions

Feb 2025 – May 2025 | Python, R, Power BI, C#, Blender, Unity, matplotlib, seaborn

- Developed a real-time 3D emotion recognition tool achieving 80%+ accuracy using t-tests and ANOVA in R, visualised using matplotlib, seaborn, and Power BI.
- Enabled interactive emotion analysis through Unity and integrated Blender for dynamic 3D rendering.

Shangri-La Petition Portal

Dec 2024 – Jan 2025 | Python (Flask), HTML/CSS, MongoDB

- Built a secure petition system with session-based authentication and admin dashboards, gaining 1,000+ users in the first month.
- Increased platform usage by 40% through UI/UX enhancements and backend optimisation.

British Airways Data Science Simulation – Forage

May 2025 | Python, Machine Learning, Data Visualization

- Delivered insights related to customer segmentation and portfolio risk behavior using Python and data visualization tools.
- Built and deployed a predictive model to identify key drivers of customer buying behaviour, improving targeting strategy.

LANGUAGES, SKILLS AND CERTIFICATES

- **Languages:** English (Fluent), Malayalam (Native), Tamil (Native), Hindi (Proficient)
- **Skills:** Familiar with core concepts in portfolio analytics and risk attribution from academic and simulated projects. I am Skilled in Python, R, SQL, Power BI, Tableau, Java, Flask, REST APIs, MongoDB, Excel (advanced), VBA for automation, GitHub, Figma, and Agile methodologies. Proficient in data visualization and statistical analysis (ANOVA, t-tests). Basic understanding of equities, fixed income, and derivatives.
- **Certifications:** Advanced Java, Python with Data Science, R Programming, Power BI (NIIT, Chennai).

ADDITIONAL WORK EXPERIENCE

Worked part-time in UK hospitality across 3 hotels (2024–2025), strengthening transferable skills in communication, problem-solving, and working under pressure while balancing academic responsibilities.