

Surya Narayanan Ramessh

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WORK EXPERIENCE

Robertson Cooper | Data Scientist

Oct 2025 – Present

- Integrated well-being analyses across 12 validated health, engagement, and performance metrics to identify organisational risk hotspots, trend shifts, and demographic differences that informed targeted interventions.
- Built industry-wide and organisation-size benchmarking frameworks using a 56,000+ survey dataset, enabling comparison against the General Working Population through Git-versioned CI/CD workflows.
- Developed predictive and driver models linking wellbeing indicators to organisational outcomes, including presenteeism, productivity, and attrition, explaining up to ~75% variance in key outcomes.

AGE CHECK CERTIFICATION SCHEME | Applied Data Scientist

Jan 2025 – Sep 2025

- Spearheaded a government-commissioned evaluation of 52 biometric age-assurance vendors, producing comparative evidence that directly informed national policy recommendations on restricting underage access to online platforms.
- Designed a statistically robust sampling framework covering 2,500+ participants across age, gender, and region, ensuring balanced representation across 12 demographic strata and reducing evaluation bias.
- Engineered a computer-vision pipeline integrating SQL-based cloud image sources, improving age-estimation accuracy by ~20% relative to baseline models through improved data quality and preprocessing.

AGE CHECK CERTIFICATION SCHEME | Data Scientist

Feb 2024 – Dec 2024

- Led UKRI-backed research on deepfake detection, designing a scalable SQL and PySpark data architecture spanning three AWS repositories to support large-scale experimentation.
- Implemented GDPR-compliant data handling for 200,000+ facial image records across UK and Swiss jurisdictions using pseudonymisation and consent-driven access controls.
- Delivered three technical workshops on deepfake attack risks to 150+ professionals, accelerating adoption of defensive strategies across partner organisations.

EARTHCHAIN – Industry Project with UoM | Data Science Consultant

Jan 2023 – Jun 2023

- Steered a six-person team through agile workflows using JIRA and Confluence, contributing to a top performance score of 77 in a competitive evaluation.
- Designed 7 Power BI dashboards with dynamic filters and KPIs, delivering actionable recommendations aligned with climate impact goals.
- Architected a KPI-driven ranking model to prioritise high-impact African sustainability projects and guide strategic investment allocation.

QUINBAY TECHNOLOGY | Software Development Engineer in Test

Jun 2019 – Aug 2022

- Scaled an automated UI and API test framework using JavaScript and Appium, increasing automation coverage by 80% across production systems.
- Rolled out a Jenkins-based CI pipeline to streamline release cycles, slashing deployment time by 20+ hours per sprint and post-release defects while improving reliability.

SKILLS

- **Programming:** Python (Pandas, NumPy, Scikit-learn, OpenCV, TensorFlow, Keras), R, Java, JavaScript
- **Data & Visualisation:** SQL, NoSQL, Excel, Google Analytics, Databricks, Power BI, Tableau, Alteryx
- **Tools:** Git, Jenkins, Docker, AWS (S3, SageMaker), Azure, GCP, Jira

EDUCATION

UNIVERSITY OF MANCHESTER | MSc Data Science | Merit (67%)

Sep 2022 – Sep 2023

- **Modules:** Advanced Statistics, Machine Learning, Text Mining, Computer Vision, Deep Learning

ANNA UNIVERSITY | BTech Information Technology | Distinction (92%)

Aug 2015 – May 2019

- **Modules:** Programming, Database Management, Data Structures, Algorithms

PROJECTS

MSC DISSERTATION | Interaction Patterns to Predict Dashboard Usability

Jun 2023 – Sep 2023

- Designed controlled A/B experiments to test dashboard usability, reducing UX friction by 62% and ensuring reliable findings for future usability research.
- Devised a machine-learning model using Support Vector Regression on 1.2M JSON log entries to validate interaction patterns and design improvements.