

Joyal John – Data Analyst

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Professional Skills

Languages: **Python, SQL**, Java

Tools: **Tableau**, HubSpot, Power-BI

Office Suite Proficiency: PowerPoint, Word, **Excel**

Cloud & Deployment: Docker, **GitHub**

IDEs: Jupyter Notebook

OS: Windows, Linux

Version control: **Git**

Profile

I am a data analyst equipped with the strong technical skills, communication ability and fast paced learning required by my profession. I enjoy problem solving, finding efficient solutions and working in a team to achieve larger goals. After my degree, which exposed me to many technical skills, and several open-source projects, I am eager to join a fast-paced work environment where I can challenge myself, improve my skill set and gain experience. Willing to relocate for roles.

Certifications

- **Google Advanced Data Analytics Professional Certificate** **[July 2025]**
 - Actively refined both technical and practical skills through real-world projects, this accredited certification reflects my commitment to excellence and adaptability to evolving industry standards.

Education

- [2021-2024] **B.Sc. (Hons) Computer Science:** University of Northampton - 2:1
 - Relevant Modules:
 - Final Year Dissertation: California Housing Price Prediction using Machine-Learning (Python/Research & Development Skills/Presentation Skills)
 - AI Techniques and Machine Learning (Python/Machine Learning Algorithms)
 - Data Structures & Algorithms
 - Advanced & Modern Databases (SQL, NoSQL, Relational Databases, Database Migration)
 - Group Project (Team-management & Organisational skills)
 - Systems Design & Development (Software Engineering)
 - Media Technology (Advanced Python programming)
- [2019-2021] **A-levels:** Loughborough College - BBC
- [2013-2018] **GCSEs** (9-1) English Martyrs Secondary - 11 GCSEs Grades 8-5 (A*-C) (including Maths, English, Biology, Chemistry, Physics, IT)

Work Experience

Freelance Data & Back-end Developer (Python, Excel) [April 2025 – Present]

- Designed and implemented a custom ETL pipeline for a financial services client, extracting and transforming HubSpot CRM data (Deals & Users) via API, into a PostgreSQL data warehouse.

- Developed both full-refresh and incremental load scripts, enabling seamless daily updates of over 10,000+ records with up to 30-day look-back logic, ensuring data freshness for decision-making.
- Collaborated with stakeholders to define data specs and KPIs, supporting more accurate revenue forecasting and improved lead management.

Projects

Data-Driven HR Attrition Analysis

[Google Advanced Data Analytics Capstone Project](#) – Salifort Motors (Available to view on my GitHub)

Tools: Python, Pandas, Scikit-learn, Seaborn, Matplotlib, NumPy

Techniques: EDA, Logistic Regression, Model Evaluation, Data Visualization, Ethics. **[July 2025]**

- Led an end-to-end data analysis project for a fictional HR team to identify key drivers of employee attrition using real-world inspired datasets.
- Conducted exploratory data analysis (EDA) to uncover patterns in employee demographics, job satisfaction, and performance scores.
- Built and evaluated a logistic regression model to predict the likelihood of employees leaving the company, achieving strong performance through precision-recall trade-offs and AUC scores.
- Visualized critical insights such as turnover rates by job level and satisfaction scores using bar plots and heatmaps to support business decision-making.
- Applied ethical considerations in data handling, focusing on bias mitigation, fairness in prediction, and responsible communication of findings.

Outcome: Delivered a stakeholder-ready summary of insights and actionable recommendations for HR, demonstrating technical proficiency and business impact.

University Dissertation - [California Housing Price Predictions using Machine-](#)

[Learning](#), **Tools:** Python, Pandas, Scikit-learn, Seaborn, Matplotlib, NumPy **[December 2023 - May 2024]**

Developed a Random Forest model to predict median house values in California, improving upon a Linear Regression baseline. Conducted comprehensive data preprocessing: handled missing values, outliers, and normalized data. Engineered new features to enhance model performance. Achieved significant improvement over the baseline. Documented the project in the essay and presented findings in a demo.

Other Work Experience

- **(September 2024 – April-2025) – Office Administrator at Enabling Others Ltd Coalville.** Duties include scheduling meetings, organising shifts for support workers, managing payroll, office maintenance, making and receiving calls.
- **(October 2022 – October 2024) – Freelance Web Developer.** Created multiple web applications for clientele to boost their online presence.
- **(pre-2021)** General work around multiple warehouses of DPD and The Co-operative as a picker packer whilst maintaining the warehouse; given me a lot of transferable and valuable communication skills, with a strong work ethic in addition.

Soft skills

Communication (written, verbal listening, presentations)

- Good written skills able to produce, essays reports and email.
- Strong verbal skills able communicate with a range of people in different setting.
- Experienced in giving presentations as part of my course to staff and fellow students.
- Active & passive listening skills

Teamwork

- Experienced in working in teams, both in employment and education.
- Regularly work in teams at university to produce groups assignments, especially Group Project Module that we were assessed based on our group effort skills.

Interests

Programming, Video Games, Movies, Fitness

References

References available upon request