

# ETHAN SHAHROOZ MOGHADDAM

*Data Scientist · Python Developer · Digital Product Creator*

**Available for:** Full-time · Freelance / Contract · Remote · Hybrid · Open to international opportunities  
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## PROFILE

Imperial College London graduate in Data Science (96% average) and Python developer, with a strong portfolio spanning data analysis, machine learning, NLP, and end-to-end product development. Comfortable working independently across the full project lifecycle — from raw data and model building through to deployment, documentation, and iteration.

Alongside technical study, I independently design, build, and commercialise digital tools, mobile applications, and websites, distributing products across platforms including Gumroad, Lemon Squeezy, Envato, and the Google Play Store. This has sharpened real commercial instincts in parallel with technical skills — pricing strategy, user feedback loops, iterative improvement, and product positioning are as much a part of my toolkit as the code itself.

After a period dedicated to full-time family commitments, I returned to tech with focus and intent — building a portfolio of real-world ML projects, independently shipping commercial digital products, apps, and websites to market, and continuing to grow my skills with every build. I am actively seeking a junior data scientist or Python developer role where I can make a meaningful contribution and continue growing within a collaborative team.

## TECHNICAL SKILLS

- **Languages:** Python, SQL, JavaScript, Java, HTML, CSS
- **Libraries:** pandas, NumPy, scikit-learn, Matplotlib, Seaborn, yfinance, spaCy, pdfplumber, python-docx
- **Tools:** Git, GitHub, Jupyter Notebook, Tableau, Excel
- **Machine Learning:** Regression, Classification, Feature Engineering, Model Evaluation, NLP
- **AI Tools:** Claude, ChatGPT, Gemini integrated into development and product workflows
- **Product Platforms:** Gumroad, Lemon Squeezy, Envato, Google Play Store

## SELECTED PROJECTS

### Crime Data Analysis & Classification

*Python · pandas · NumPy · Matplotlib · Seaborn · scikit-learn*

- End-to-end analysis of real-world crime data (2020 to present), covering cleaning, feature engineering, and exploratory analysis
- Built a Random Forest classifier to predict crime type from temporal features; evaluated with accuracy, precision, recall, and confusion matrices
- Documented assumptions, limitations, and insights clearly for both technical and non-technical audiences

GitHub: [github.com/ShazMoghaddam/Crime-Data-Analysis-Project](https://github.com/ShazMoghaddam/Crime-Data-Analysis-Project)

### CVLens – AI CV Reader & Analyser

*Python · spaCy · NLP · pdfplumber · python-docx*

- NLP-driven tool to parse CVs in PDF and DOCX formats; extracts skills, detects section structure, and flags weaknesses
- Applies tokenisation, entity recognition, rule-based matching, and normalisation pipelines for consistent output
- Generates structured, human-readable feedback from unstructured text, a practical application of NLP in a real hiring context

GitHub: [github.com/ShazMoghaddam/CVLens](https://github.com/ShazMoghaddam/CVLens)

### Lending Club Loan Default Prediction

*Python · pandas · NumPy · Matplotlib · Seaborn · scikit-learn*

- Analysed historical loan data to identify key default risk factors across income, interest rates, and debt-to-income ratios
- Built a Logistic Regression model addressing class imbalance with stratified sampling; documented methodology and findings in a structured Jupyter Notebook

GitHub: [github.com/ShazMoghaddam/Lending\\_Club\\_Loan\\_Project](https://github.com/ShazMoghaddam/Lending_Club_Loan_Project)

## Stock Tracker Dashboard & Technical Analysis

*Python · pandas · yfinance · Matplotlib · Jupyter Notebook*

- Built a Python stock dashboard analysing AAPL, AMZN, GOOGL, and JPM using the Yahoo Finance API
- Implemented an SMA crossover strategy to generate buy/sell signals; visualised and documented the full workflow

GitHub: [github.com/ShazMoghaddam/Stock\\_Tracker\\_Dashboard](https://github.com/ShazMoghaddam/Stock_Tracker_Dashboard)

## EXPERIENCE

### Independent Digital Product Developer · Remote *2022 – Present*

*shazmoghaddam.github.io · Gumroad · Lemon Squeezy · Envato · Google Play Store*

- Independently design, develop, and commercialise digital tools, mobile applications, and websites across multiple platforms, managing the full product lifecycle from concept and build through to publishing, pricing, and customer support
- Android apps published to the Google Play Store include Math Adventure – Maths for Kids and Bingo Maths, educational tools built for young learners
- Product catalogue also spans finance tools, productivity utilities, and bespoke websites, with a growing line across web and Android ecosystems
- Apply user feedback and data-driven iteration to refine features, improve usability, and grow recurring revenue alongside technical study

### Sales Representative (Technology) · John Lewis / Currys (Agency), London *March 2011 – March 2013*

- Customer engagement, technical product advice, and sales support across multiple London sites
- Developed strong communication, prioritisation, and stakeholder management skills in a fast-paced retail environment

## EDUCATION

### Imperial College London *March 2025 – September 2025*

*Python Programming for Data Science Bootcamp · Average Grade: 96%*

- Data types, statistics, machine learning, data cleaning, and visualisation

### Udemy *October 2022 – March 2024*

*100 Days of Code: The Complete Python Pro Bootcamp · The Complete Python Bootcamp: Zero to Hero*