

# Abhinava Sai Bugudi

London, UK (Willing to relocate)

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## Profile

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Data Scientist with a First Class Honours degree in Software Engineering. Experienced in predictive modeling, time series forecasting, NLP, and computer vision. Skilled in Python, R, SQL and T-SQL, with a track record of delivering measurable results: 85% accuracy in FX forecasting, 15% click through uplift in e-commerce, and live deployment of applications with real users. Strong foundation in statistics and machine learning, with the ability to take a project from data preparation through modeling and into production.

## Education

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### BEng Software Engineering, 1st Class Honours

*University of Westminster, London*

Sep 2022 – Jul 2025

- Key Modules: Statistical Modelling, Big Data Analytics, Machine Learning, AI Ethics, Advanced Algorithms, Cloud Computing.
- A Levels (Harris Science Academy): Mathematics, Computer Science, Physics, Chemistry.

## Experience and Projects

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### AI Developer Intern

*BuzNear (Sanspro Technologies)*

Jun 2024 – Sep 2024

- Explored and analyzed 750,000 user interactions to identify patterns and features for modeling.
- Fine tuned a 12 layer BERT recommendation model and validated a 15% CTR uplift through live A/B testing.
- Built an NLP service that summarised 70,000 product descriptions, cutting manual workload by 40%.
- Wrote T-SQL stored procedures, views, triggers and functions to automate analytics and ensure data integrity.
- Built Power BI dashboards on top of these T-SQL pipelines to present insights to product managers.

### Deep Learning Project

*Voxscribe – Handwriting Recognition App*

Oct 2024 – May 2025

- Managed the full ML pipeline: data cleaning, exploratory analysis and augmentation of 130,000 EMNIST images.
- Designed and trained a CNN in TensorFlow, achieving 90% validation accuracy.
- Evaluated results using confusion matrices, precision, recall and F1 score. Applied cross validation and hyperparameter tuning.
- Converted the trained model to TensorFlow Lite, reducing size by 75% and reaching 600ms inference latency on Android.
- Built an Android front end in Kotlin with real time prediction, Top 3 suggestion ranking, and export to PDF, TXT and DOCX.
- Deployed a Flask API on Render cloud with asynchronous request handling and version controlled models.

### Data Science Project Lead

*VolvoxForex (Independent Project)*

Jan 2023 – Present

- Built and deployed a live FX forecasting platform with 150+ users: [volvoxforex.online](https://volvoxforex.online).
- Designed an AWS pipeline with Lambda, S3 and ECS to ingest 2GB+ of data per day.
- Engineered 50+ predictive features including lags, technical indicators and sentiment scores.
- Trained and backtested LSTM models on 5 years of data with 85% directional accuracy.

- Built a Flask API and React dashboard for real time forecasts and analytics.

## Robotics Maze Pathfinder

*University Robotics Society*

Jan 2023 – Jul 2023

- Implemented a Q learning agent in Python for maze navigation with a 99% completion rate, outperforming A\* by 30%.
- Tuned reward matrices and epsilon greedy exploration to optimise learning.
- Connected the agent to Arduino hardware and used OpenCV for vision.
- Led a small team and presented results at internal showcases.

## Skills

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**Data Science and Analytics:** Statistical Modelling, Predictive Analytics, A/B Testing, Hypothesis Testing, Feature Engineering, EDA

**Machine Learning:** Time Series Forecasting (LSTM), NLP (Transformers, BERT), Computer Vision (CNNs), Recommender Systems, Reinforcement Learning

**Programming and Databases:** Python (Pandas, NumPy, Scikit learn, TensorFlow, PyTorch), R, SQL and T-SQL (Views, Stored Procedures, Triggers, Functions), Java

**Cloud and MLOps:** AWS (Lambda, S3, ECS), Azure, GCP, Docker, CI/CD, Git

**BI and Communication:** Power BI, Tableau, SAS, Data Storytelling

## Certifications

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- Google Cloud Professional Machine Learning Engineer
- Microsoft Certified: Azure AI Fundamentals (AI900), Azure Fundamentals (AZ900)
- SAS Academic Specialisation in Big Data Analytics and Business Intelligence
- DeepLearning.AI – NLP with Transformers
- Data Science with Python and R (Datahill Solutions)