

Philip Charles Stevens

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Experienced data scientist with 10+ years of success in developing innovative artificial intelligence and machine learning solutions. Skilled in engineering scalable, data-driven solutions that drive business growth and enhance customer satisfaction. Proficient in applying AI/ML methodologies to solve complex problems. Currently on sabbatical, seeking opportunities to contribute to cutting-edge projects.

SKILLS

Programming Languages: Python, SQL, R, Scala, Java

ML Libraries/Frameworks: TensorFlow, Keras, scikit-learn, PyTorch, XGBoost

ML/AI Applications: Natural Language Processing (NLP), Computer Vision, Recommendation Systems, Generative AI, Predictive Models

ML/AI Techniques: Deep Learning, Transfer Learning (LLMs), Reinforcement Learning, Classical ML (eg, Regression, Decision Trees, Ensembles, Clustering)

Data Science: Statistical Analysis, Data Analytics, Data Mining, A/B Testing

Big Data: Spark, PySpark, Hive, Hadoop

Software Development: Cloud Platforms (AWS, Google Cloud), Databases (RDBMS, NoSQL), Unix/Linux, Git, REST API Development, Docker, Agile Methodologies

Soft Skills: Communication, Analytical Thinking, Problem Solving, Collaboration/Teamwork, Leadership, Adaptability/Continuous Learning, Time Management, Research/Development, Technical Writing

WORK EXPERIENCE

Senior Data Scientist

Mar 2020 - Feb 2023

Agoda

Bangkok, Thailand

Leading online travel agency, subsidiary of Booking Holdings.

- Spearheaded several frontend personalization projects using contextual bandit algorithms (e.g., linear Thompson Sampling), dynamically adjusting content based on user data, boosting bookings by 500/day.
- Developed recommendation systems with Word2Vec/Doc2Vec embedding models, increasing daily bookings by hundreds.
- Enhanced systems to highlight key reviews using advanced BERT and LDA topic models, significantly boosting user engagement and resulting in additional bookings.
- Collaborated with the product team, offering data-driven strategic recommendations that improved business outcomes and informed key decision-making processes.

Data Scientist

Oct 2014 - Sep 2018

Quantcast

London, UK

Industry-leading AI-powered targeted advertising and audience measurement based in San Francisco. Joined as part of startup acquisition.

- Directed many experiments to enhance core targeting models using advanced feature engineering, new data sources, refined model architectures, hyperparameter tuning, and domain drift monitoring, achieving 2-10% quarterly conversion rate improvements.
- Managed the end-to-end machine learning lifecycle and data pipeline for core targeting models, ensuring robust performance and consistency across data collection, processing, model training, deployment, and performance monitoring.
- Collaborated with external stakeholders to deliver custom projects and regularly communicated technology updates to advertising agencies, strengthening client relationships and enhancing project outcomes.

Data Scientist

Oct 2013 - Sep 2014

Struq

London, UK

A fast-paced AdTech startup, acquired by Quantcast.

- Integrated user data into click, conversion, and revenue prediction models, enhancing accuracy through advanced feature engineering techniques, resulting in a ~20% increase in user clicks and conversions for clients.

EDUCATION

MSc, Computer Science

Mar 2011 - Nov 2012

University of Auckland

GPA: 1st Class Honours

- Awarded First in Course in COMPSCI 767 (Intelligent Software Agents)
- Awarded Faculty of Science Master's Award
- Received Master's Scholarship funded through the Royal Society of New Zealand Marsden Grant, under Dr. Beryl Plimmer

BA, Mathematics and Philosophy

Mar 2006 - Nov 2010

University of Auckland

PUBLICATIONS

Supervised Machine Learning for Grouping Sketch Diagram Strokes. [🔗](#) on SBIM '13

PROJECTS

Personal Projects 