

Padmanaba Srinivasan

<https://dangerbot3pic.github.io>

Nationality : British

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EDUCATION

Imperial College London

Doctor of Philosophy (PhD) in Machine Learning and Reinforcement Learning

Thesis title: *Offline Reinforcement Learning: In Pursuit of Perfect Policies from Imperfect Data*

London, United Kingdom

Oct. 2020 - Present

Imperial College London

Master of Engineering (MEng); Electronic and Information Engineering; First-class Honours

London, United Kingdom

Oct. 2016 - Jun. 2020

EXPERIENCE

Infosys

Researcher · Infosys Tennis Platform

London, United Kingdom

2022 - 2023

- **Consulting.**

Infosys

Researcher · Infosys Tennis Platform

London, United Kingdom

Jan. 2021 - Oct. 2021

- **Automated Stroke Classification**

Developed automatic procedure to locate players, identify and classify stroke. Work resulted in publication. Incorporated into social media offering for client.

- **Player Imitation**

Developed novel method for offline imitation learning on rallies that also learns player styles. Work resulted in publication. Incorporated into tennis analytics platform.

- **LLM-Based Commentary Generation**

Proposed, led and produced proof-of-concept LLM model for tabular data to textual description of point.

Credit Suisse

Software Engineer · Developer Tools & Services

London, United Kingdom

Apr. 2019 - Sep. 2019

- **AI Assistant**

Developed NLP-based chatbot that reduced cases requiring human intervention by 20%. Received multiple offers to return for full time position.

- **Integrate Modern Team Working Tools**

Integrated AI assistant with Rocket.Chat. Enabled stakeholders to automate tasks using assistant. Launched for entire London office.

- **Trader AI Assistant**

Led interns to develop an AI assistant for use by traders. Project deployed for 100 traders after stakeholder approval.

GCHQ

Cybersecurity Intern · Various Teams

Cheltenham, United Kingdom

Jul. 2018 - Sep. 2018

- **Proprietary Image Viewer**

Developed image viewer for proprietary image format.

- **Penetration Testing**

Trained in penetration testing on hardware and software, with a focus on Windows vulnerabilities.

- **Secure Communications**

Created secure communications platform.

PUBLICATIONS

Offline Model-Based Reinforcement Learning with Anti-Exploration

50th Annual European Conference on Artificial Intelligence. 2024.

Offline Reinforcement Learning with Behavioral Supervisor Tuning

Proceedings of the Thirty-Third International Joint Conference on Artificial Intelligence. 2024.

SpOiLer: Offline Reinforcement Learning using Scaled Penalties

6th Annual Learning for Dynamics & Control Conference. 2024.

Thinking the GOAT: Imitating Tennis Styles

17th Annual MIT Sloan Sports Analytics Conference. 2023. Research Paper Competition Finalist.

The Path to GOAT-ness: Classifying Tennis Strokes

MathSport International Conference. 2022.

AWARDS

The Data Open, Europe Regional Datathon 2020, by Citadel and Correlation One

Won first place prize of \$20 000 in a team of four. Developed new methodology to identify areas undergoing gentrification.

Machine Learning for the Analysis and Prediction of Film Performance

Master's thesis: awarded Distinguished Project (Dept. of Computing, Imperial College London). Worked with FilmChain to identify factors for film success and predict predict film performance (box-office, Blu-Ray/DVD sales) prior to release and estimate revenue post-release.

TEACHING

Imperial College London

London, United Kingdom

- **Introduction to Machine Learning** · Teaching Assistant

2020, 2021

Course taught by Dr. Antoine Cully. Teaching students and marking.

Imperial College London

London, United Kingdom

- **Deep Learning** · Teaching Assistant

2021, 2022

Course taught by Dr. Bernhard Kainz. Teaching students and marking.

TALKS

Offline Model-Based Reinforcement Learning with Anti-Exploration

ECAI 2024, Santiago de Compostela, Spain.

Offline Reinforcement Learning with Behavioral Supervisor Tuning

IJCAI 2024, Jeju Island, South Korea.

Thinking the GOAT: Imitating Tennis Styles

Sloan Sports Analytics Conference 2023, Boston, MA, United States of America.

The Path to GOAT-ness: Classifying Tennis Strokes

MathSport International Conference 2022, Reading, United Kingdom.