Padmanaba Srinivasan
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Education

Imperial College London — London, United Kingdom
Doctor of Philosophy (PhD); Machine Learning — *Oct. 2020 - Present*

Imperial College London — London, United Kingdom
Master of Engineering (MEng); Electronic and Information Engineering; First-class Honours — *Oct. 2016 - Jun. 2020*

Experience

Infosys — London, United Kingdom
Researcher · Infosys Tennis Platform — *Feb. 2023 - Mar. 2023*

- **Miscellaneous Projects**

Infosys — London, United Kingdom
Researcher · Infosys Tennis Platform — *Sep. 2022 - Oct. 2022*

- **Miscellaneous Projects**

Infosys — London, United Kingdom
Researcher · Infosys Tennis Platform — *Jan. 2021 - Oct. 2021*

- **Automated Stroke Classification**
  Developed automatic procedure to locate players, identify and classify stroke. Work resulted in publication.
- **Player Imitation**
  Developed novel method for offline imitation learning on rallies that also learns player styles. Work resulted in publication.

Credit Suisse — London, United Kingdom
Software Engineer · Develop Tools & Services — *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.
- **Trader AI Assistant**
  Led interns to develop an AI assistant for use by traders. Project deployed after stakeholder approval.

GCHQ — Cheltenham, United Kingdom
Cybersecurity Intern · Various Teams — *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 Artifical 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.

Teaching

Imperial College London London, United Kingdom

- **Introduction to Machine Learning** · Teaching Assistant *2020 - 2021*
  Course taught by Dr. Antoine Cully. Teaching and marking.

Imperial College London London, United Kingdom

- **Deep Learning** · Teaching Assistant *2020 - 2022*
  Course taught by Dr. Berhnard Kainz. Teaching and marking.

Invited 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.

Projects

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.

Programming Skills

Languages: Python , C++ , C , Java , MATLAB , Elixir **Frameworks**: PyTorch , Keras