SANDARBH YADAV

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EDUCATION

Indian Institute of Technology Bombay
Ph.D. in Computer Science and Engineering

🗓 Jul 2022 – Present   🎓 CGPA = 9.09

Advisor: Prof. Shivaram Kalyanakrishnan (IIT Bombay)
Co-advisor: Prof. Vadlamani Ravi (IDRBT, Hyderabad)

Atal Bihari Vajpayee - Indian Institute of Information Technology and Management, Gwalior
B.Tech. in Computer Science and Engineering

🗓 Jul 2017 – Jun 2021   🎓 CGPA = 9.44

Army Public School, Jhansi
Class XII, CBSE

🗓 Apr 2015 – Mar 2016   🎓 Percentage = 94.60%

Class X, CBSE

🗓 Apr 2013 – Mar 2014   🎓 CGPA = 10.00

EXPERIENCES

Oracle
Software Developer

🗓 Jul 2021 – Jul 2022   📍 Bengaluru, India

5G NEF Project

Directi
Intern

🗓 May 2018   📍 Gwalior, India

Taught competitive programming to school students on CodeChef using Python

SKILLS

- **Languages:** C, C++, Java, Python, SQL, etc.
- **Libraries:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, Keras, OpenAI Gym, etc.
- **Frameworks:** PyTorch, TensorFlow, JUnit, Spring, etc.
- **Tools:** Git, Gradle, Maven, Docker, Kubernetes, Arduino, LaTeX, MATLAB, Confluence, Jira, etc.
- **Technologies:** Microservices, REST API, Java Persistence API, OOP, Cloud Computing, etc.
- **Others:** Research, Teaching, Agile Methodology, etc.

PUBLICATIONS

Yadav, S., Ravi, V., & Kalyanakrishnan, S. (2025). "Hybrids of Reinforcement Learning and Evolutionary Computation in Finance: A Survey." ACM Computing Surveys, 57(10), 247.

Ram, A. A., Yadav, S., Vivek, Y., & Ravi, V. (2024). "Deep Reinforcement Learning for Financial Forecasting in Static and Streaming Cases." Journal of Information & Knowledge Management, 23(06), 2450080.

Yadav, S., & Singh, P. K. (2021, November). "Relegation-Based League Championship Algorithm." In 8th International Conference on Soft Computing & Machine Intelligence (ISCMI) (pp. 80-85). IEEE.

Under review:

"Portfolio Optimisation using Policy Search" - Quantitative Finance

"Quantifying Systemic Risk in India" - European Journal of Operational Research

PROJECTS

Decision-time Planning in Finance

🗓 Aug 2023 – Nov 2023   📑 R&D Project

Assessed the feasibility of decision-time planning approaches for trading
Supervisor: Prof. Shivaram Kalyanakrishnan, IIT Bombay

I have also worked on multiple projects in Reinforcement Learning, Machine Learning, Deep Learning, Optimisation, Natural Language Processing, Internet of Things, Software Engineering, etc.

RESEARCH AREAS

- **Artificial Intelligence:** Reinforcement Learning, Machine Learning, Deep Learning, etc.
- **Evolutionary Computation:** Genetic Algorithms, Swarm Intelligence, Evolutionary Strategies, etc.
- **Finance:** Trading, Portfolio Optimisation, Financial Forecasting, etc.
- **Banking:** Systemic Risk Prediction and Analysis