

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

S. Yadav and P. K. Singh, "Relegation-based league championship algorithm," in *2021 8th International Conference on Soft Computing & Machine Intelligence (ISCMi)*, pp. 80–85, IEEE, 2021.

Accepted:

"Deep Reinforcement Learning for Financial Forecasting" - *Journal of Information and Knowledge Management (JIKM)*

Under review:

"Hybrids of Reinforcement Learning and Evolutionary Computation in Finance: A Survey" - *ACM Computing Surveys (CSUR)*

PROJECTS

Causal Discovery using Reinforcement Learning

📅 Jan 2023 – Apr 2023 📖 Adv. ML Course Project

Used actor-critic framework
Supervisor: Prof. Sunita Sarawagi, IITB

Bayesian Coreset Optimization for Personalized Federated Learning

📅 Jan 2023 – Apr 2023 📖 Opt. in ML Course Project

Proposed modifications to existing algorithms
Supervisor: Prof. Ganesh Ramakrishnan, IITB

Solving the Cold Start problem in Recommendation Systems

📅 Aug 2022 – Nov 2022 📖 ML Course Project

Used graph convolutional neural network (GCNN)
Supervisor: Prof. Preethi Jyothi, IITB

Apart from these, I have done some other projects in RL, ML, NLP, IoT, Software Engineering, etc.

RESEARCH AREAS

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