SANDARBH YADAV

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in www.linkedin.com/in/sandarbh-y-946775115   ○ https://github.com/SandarbhYadav

EDUCATION

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

📅 Jul 2022 – Present   🎓 CGPA = 9.09

Supervisor: Prof. Shivaram Kalyanakrishnan

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

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SKILLS

- **Languages:** C, C++, Java, Python, SQL etc.
- **Libraries:** NumPy, Pandas, Keras, Scikit-learn, Matplotlib, SciPy, Natural Language Toolkit etc.
- **Frameworks:** PyTorch, TensorFlow, JUnit, Spring etc.
- **Tools:** Git, Gradle, Maven, Docker, Kubernetes, Arduino, LaTeX, MATLAB, Confluence, Jira, Microsoft Office etc.
- **Technologies:** Microservices, REST API, Java Persistence API, OOP, Cloud Computing, 5G 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.
Note: 2 other papers are currently under review at CSUR and JIKM

PROJECTS

Financial Forecasting using Reinforcement Learning

📅 May 2023 – Jul 2023   🗐 Research Project

Used deep deterministic policy gradient (DDPG)
Supervisor: Prof. Vadlamani Ravi, IDRBT

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.
- **Soft Computing:** Evolutionary Computing, Swarm Intelligence, Fuzzy Logic, etc.
- **Finance:** Trading, Portfolio Optimization, etc.