



Akshit Singh

Bachelor of Technology
in Mathematics and Computing
Indian Institute Of Technology, Ropar

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EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	6.5 (Till 6th Sem)	2021-2025
Senior Secondary	D.A.V Public School Sreshtha Vihar Delhi-92	95.6%	2021
Secondary	Holy Angel's Sr. Sec. School Rajender Nagar Ghaziabad(ICSE)	92.4%	2019

EXPERIENCE

- **Research Internship , IIT Guwahati** May 24 - Aug 24
Deep Reinforcement-Learning
 - Explored the Neural PPO algorithm's potential in gaming and real-world simulations, enhancing complex environments.
 - Analyzed its convergence to optimal policies under defined assumptions for improved performance for desired outcomes.
- **Full stack developer for Technology Buisness Incubation Foundation(TBIF) IIT-Ropar** April 24 - present
Full Stack Developer / React , HTML , CSS, TailwindCSS, ExpressJs, Apache, nginx
 - Created an interactive and responsive frontend using React and Tailwind, optimizing the user experience
 - Developed a Node.js backend for automating email services and streamlining overall website functionality.
 - Deployed the website on the college server using Apache, fixing rendering issues for smooth operation.

PROJECTS

- **CryptoCurrency Tracker** May 23
MERN Stack , TwitterAPI, RapidAPI , ReactChartJS , TailwindCSS **GitHub**
 - Created and deployed a website where user can track an overview about 100+ cryptocurrencies
 - Build with React.js and RapidAPI here one can look for detail about any cryptocurrency such as their price, total market cap, price changes.
- **Exponential Trees** November 22
DSA Course Project under Dr. Anil Shukla **GitHub**
 - Sorting a set of integers has been a long-standing problem that has garnered significant attention from researchers.
 - Exponential Trees present an efficient solution to this problem, offering a sorting bound of $O(n \log \log n)$ for a set of n integers..
 - In this project, a modified version of Exponential Trees has been utilized to streamline the implementation process, thereby facilitating easier application and utilization.
- **Quadcopter Landing on Inclined Surface Using Deep Reinforcement Learning** Mar 24
Reinforcement-Learning, Python, PyTorch, Numpy, StableBaselines3 **GitHub**
 - Developed a medium to compare all Algorithms to find best Policy.
 - Developed a new environment to land on moving inclined plane.
 - Compared with other Algorithms like TD3(Twin Delayed DDPG) , Soft Actor-Critic , Adv Actor-Critic(A2C)

Minor Projects

- **Hospital Management System For IIT Ropar** **GitHub**
Developed a Management Portal using MERN stack for IIT Ropar Medical Center and implemented on a ground zero
- **Spam Mail Detector** **GitHub**
Python, Flask , ReactJs , TailwindCSS , TfIdfVectorizer Predicts whether a mail is a spam or not using NLP.
- **Child Health Tracking App** **GitHub**
Flutter , Android Studio , App Scripts Developed Android App for nutritional check on child health.
- **ChatMania** **GitHub**
MERN stack, Socket.io , JsonWebToken Allow Conversation between multiple User and one-to-one chat facility.

TECHNICAL SKILLS

- **Programming Languages:** C | C++ | Python | JavaScript | SQL | Java8
- **Web & App Development:** React | Bootstrap | HTML | CSS | React Native | Flutter | RDBMS | Docker | Tailwind CSS | Node.js | Next.js | JWT | RESTful API
- **Tools:** AWS | Firebase | Android Studio | Jupyter | Git/GitHub | Colab | MongoDB

KEY COURSES TAKEN

- **CSE & Maths:** Data Structure and Algorithms, Real Analysis, Discrete Mathematics, Theory of Computation, Introduction to Numerical Analysis, Probability and Statistics, DBMS, Java fundamentals and OOPs, Operating Systems
- **Others:** AWS fundamentals mastery, Signals and Systems, Tinkering Lab (Arduino), Economics

POSITIONS OF RESPONSIBILITY

- **Head, Inter School Conclave,** (Advitiya, TechFest IIT Ropar) - Managed 1800 School Students. Feb 24
- **Coordinator,** Debating Society(Debsoc)-Teaching my fellows about rational thinking Apr 22 - Apr 23
- **Hostel & Mess Representative,** Managed over 600 students and proper functioning of mess and hostel. Apr 22 - Apr 23
- **Class Representative,** Established a smooth bridge between students and department and Professors. Nov 21 - present

MISCELLANEOUS

- **Codeforces:**, **Specialist** max rating: 1465
- **Amazon ML Summer School 2024,**
- **Leetcode,** Current Rating 2100
- **Codechef,** 4 star Coder