



**Aman Pushkar**  
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## PROJECTS

- **Peer-to-Peer VoIP Platform** [Link]
  - Built a peer-to-peer VoIP app using Python sockets and UDP for real-time audio.
  - Implemented peer discovery, registration, and multithreaded call handling.
  - Gained experience in socket programming and decentralized networking.
- **Implementation of Text-to-Image Model RPG** [Link]
  - RPG: Recaptioning, Planning and Generation through LLM
  - Combination of LLM and Diffusion Model.
  - Contributed to its use-case in Medical Field.
- **A Linux Text Editor with File Encryption** [Link]
  - Gained insights into how a basic text editor works.
  - Worked on making the text editor secure.
  - Structured code for better maintainability.
- **Fast Fourier Transform and Its Applications** [Link]
  - Implemented DFT and FFT
  - Gained experience in analyzing and transforming signals using Fourier techniques
  - Applied Fast Fourier Transform for Image Compression and Audio Filtering
- **Strategic Five** [Link]
  - Algorithms used: Monte Carlo Tree Search, Minimax with alpha-beta pruning
  - Used MCTS to make informed decisions in complex, uncertain environments, applicable beyond gaming
- **Investment Management Website (Ongoing)** [Link]
  - Developing a full-stack platform to deliver comprehensive wealth management solutions
  - Built using MERN stack (MongoDB, Express.js, React.js, Node.js) with responsive UI, API integrations, and secure architecture.

## EDUCATION

- **Indian Institute of Technology, Dharwad** 2022-2026  
B.Tech in Mathematics and Computing CPI: 8.79
- **Delhi Public School Eldeco, Lucknow** 2021  
CBSE (Class - 12) Percentage: 96.2
- **St. Peter's School Ambedkarnagar** 2019  
ICSE (Class - 10) Percentage: 92.8

## SKILLS

**Technical Skills:** C/C++ | Java | Python | GitHub | PyTorch | JavaScript | React.js | Bash | Scripting | Linux | Node.js | NS3  
**Soft Skills:** Communication | Time Management | Teamwork | Creativity | Problem-Solving | Critical Thinking  
**Relevant Coursework:** Introduction to Mathematical Finance | Statistics | Data Structures and Algorithms | Computer Architecture | Operating Systems | Computer Networks | Data Analysis | Mathematics for Data Science