



Anish

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Address: L-1/1988, Asthal Mandir, Sangam Vihar, Delhi



Education

Indraprastha Institute of Information Technology, Delhi
B.Tech in Computer Science Engineering

Aug 2022 – Jun 2026
CGPA: 7.1/10

Tinu Public School
CBSE - Class 12 (PCM + CS)

Apr 2021 – Feb 2022
Percentage: 91%

Tinu Public School
CBSE - Class 10

Apr 2019 – Mar 2020
Percentage: 77%

Skills

Programming Languages: Python, Java, C++, C, Kotlin, JavaScript, HTML, CSS, SQL

Frameworks & Libraries: ReactJS, ExpressJS, NodeJS, JavaFX, Jetpack Compose, Matplotlib, NumPy, Pandas, Scikit-learn, PyTorch, TensorFlow

Tools and Technologies: Git/GitHub, MySQL Workbench, Google Colab, VS Code, IntelliJ, Ubuntu (WSL), PyCharm, NS-3, Figma, Canva, Docker, Firebase, Nginx, PM2

Technical Areas: Machine Learning & NLP, Data Structures and Algorithms, Operating Systems, Computer Networks, Algorithm Design and Analysis, Database Management Systems, Information Integration and Applications, Artificial Intelligence, Mobile Computing

Work Experience

Full-Stack & Security Engineer - Research to Commercialization

May 2025 – July 2025

Advisor: Dr. Anuj Grover

Technology Stack: React.js, Node.js, Express, FastAPI, Docker, MongoDB, Firebase

Website: r2c.iiitd.edu.in

- Built a secure full-stack portal with React.js, Node.js, and MongoDB for researchers to upload studies and auto-populate metadata using an integrated Python-based model
- Strengthened data protection by implementing comprehensive security protocols, including Firebase Auth, rate limiting, and encrypted storage, with zero reported data breaches throughout the project

Platform Developer - Office of Tech Transfer & Management, IIIT-Delhi

Jan 2025 – Apr 2025

Technology Stack: MERN Stack, Kotlin, XML, Python, RAG, Firebase, Nginx, PM2, Excel Automation, React Admin, FastAPI

Website: otmt.iiitd.edu.in

- Led full-stack development of the OTMT platform, building a MERN web app, a Kotlin/XML Android app, and a React-based admin dashboard
- Developed an automated brochure generation tool that auto-populated designed templates using Excel inputs and backend data mapping
- Integrated a RAG-based chatbot for user queries and managed production deployment using Nginx and PM2; handled outreach and user onboarding

EpicQuest Learning - Lead Teaching Assistant

May 2024 – May 2025

- Collaborated with Mr. Tilak Mishra (University of Pennsylvania alum), CEO of the firm, to design and deliver comprehensive app development curriculum for over ten high school and university students; enhanced student learning outcomes, resulting in a 20% increase in sign-ups and student engagement
- Conducted in-depth research on emerging solutions for SDGs and implemented app development and design thinking strategies for students to build and grow their leadership projects

Projects

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|--|---|
| Document Scanning Android App <i>Technology Stack:</i> Kotlin, Jetpack Compose, C++, Google ML Kit | Jan 2025 – Apr 2025 Individual Project |
| <ul style="list-style-type: none">Developed a native Android document scanning app achieving 98% OCR accuracy and 90% text-to-speech clarity using Google ML KitAutomated edge detection and enhancement, reducing manual crop time by 75% | |
| Deception Detection in Diplomacy Dialogues <i>Technology Stack:</i> Python, TensorFlow, GCNs, NLP, Transformers | Jan 2025 – Apr 2025 Team Project (Size: 2) |
| <ul style="list-style-type: none">Architected a hybrid deep learning model combining a Transformer encoder for text with Graph Convolutional Networks (GCNs) to process contextual game-state graphs for deception detectionPreprocessed a dataset of 17,000+ messages; applied down-sampling to address class imbalance, achieving 85.8% accuracy and a 0.60 Macro F1-score on the held-out test set | |
| Advanced NoC Design & Simulation <i>Technology Stack:</i> Gem5, HeteroGarnet, Python, SystemC | Aug 2024 – Dec 2024 Team Project (Size: 2) |
| <ul style="list-style-type: none">Designed and implemented novel Network-on-Chip (NoC) configurations from scratch using HeteroGarnetBenchmarked system performance in Gem5 under diverse traffic patterns, informing scalable architecture decisions | |
| Stick Hero Game <i>Technology Stack:</i> Java, JavaFX, FXML, Multithreading, JUnit, OOP, Design Patterns | Oct 2023 – Nov 2023 Team Project (Size: 2) |
| <ul style="list-style-type: none">Developed a JavaFX stick-man arcade game with cherry collection mechanics at 60 FPS and less than 5ms input latencyEnsured code quality with JUnit testing covering 90% of code paths and multithreading for 100 concurrent animations | |
| Mini Operating System <i>Technology Stack:</i> C, Linux, Git, Java, WSL | Oct 2023 – Dec 2023 Individual Project |
| <ul style="list-style-type: none">Engineered a priority-based CPU scheduler in C, decreasing average process turnaround time by 15% under heavy multi-process workloads, enhancing system responsivenessStreamlined shell and ELF loader with 100% lazy-loading success, reducing memory footprint by 30% | |

Positions of Responsibility

- Class Representative, Class 12: Acted as the primary liaison for 80+ students, conveying feedback to faculty while organizing class-wide academic initiatives

Awards and Achievements

- Won college foosball tournament, demonstrating competitive spirit and strategic thinking in high-pressure situations
- Solved over 300 algorithm and data structure challenges on LeetCode and GeeksforGeeks, demonstrating strong problem-solving skills and algorithmic thinking through consistent practice and optimization

Certifications

- Machine Learning Specialization (Coursera): Regression, Neural Networks, Clustering
- Data Structures and Algorithms (Udemy): Trees, Graphs, Hashmaps, Algorithms

Interests and Hobbies

- Playing badminton and foosball

Declaration: The above information is correct to the best of my knowledge.

Anish

Date: August 7, 2025