Namandeep Singh

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Technical Skills

Languages and DataBases: Java, Python, C++, C, HTML, CSS, JavaScript, Photoshop, Figma, Canva, Illustrator, Miro, Git, GitHub, Scikit-learn, TensorFlow, Pandas, Object-Oriented Programming (OOP), Agile, Mobile App Development (UI/UX Design, LibGDX).
Relevant Coursework: Digital Circuits, Database Management Systems (DBMS), Operating Systems, Advanced Programming, Probability and Statistics, Data Structures & Algorithms.
450+ DSA Problems solved in various Platforms.

Projects

Sensor Fault Detection Using Machine Learning. **January 2024 – April 2024**

- *Developed a machine learning model to detect and classify sensor faults,* ***achieving 92% accuracy.***
- *Preprocessed data, engineered features, and applied algorithms like* ***Random Forest and NeuralNetworks.***
- *Deployed a* ***real-time monitoring system*** *using Flask and Docker.*
- ***Tools****: Python, Scikit-learn, TensorFlow, Pandas.*

Medicine Reminder App with AI-Powered Pill Identification **January 2025 – March2024**
React Native | Node.js | PostgreSQL | TensorFlow | Firebase

- Built a mobile app for pill management with AI-based pill identification and reminders.
- Developed the React Native frontend and Node.js backend with PostgreSQL for data storage.
- Integrated a TensorFlow model for real-time pill scanning and FCM for push notifications.

Angry Birds Game Clone (OOPS & LibGDX) **July 2024 – December 2024**

- *Prepared a* ***physics-based game*** *inspired by Angry Birds using OOP principles and LibGDX.*
- *Implemented bird abilities* ***(e.g., speed boosts, explosives), level progression,*** *and integrated features like power-ups.*
- *Added functionalities for* ***saving/loading game state*** *and leaderboard tracking through modular class architecture to ensure scalability and maintainability.*

RISC32I Assembler-Simulator **January 2024 – April 2024**

- *Implemented a three-pass assembler and simulator for* ***RISC-V 32-bit integer ISA in Python****.*
- *Verified instructions for correctness and generated machine code using the assembler.*
- *Handled the simulator's register operations, memory management, conditionals, and function calls.*
- *Displayed register changes after each instruction execution.*
- *Presented the final memory state at the end of the simulation.*

Education

Indraprastha Institute of Information Technology (IIIT Delhi) **Aug 2023 – Aug 2027**
Bachelor of Technology in Computer Science. *Delhi, India*

Leadership / Extracurricular

Odyssey Fest
Volunteer

- Assisted in organizing and managing events during the Odyssey Fest at IIIT Delhi. *(Jan 2025, IIIT Delhi)*

Awards & Achievements

- Achieved **97percentile in JEE Mains**, ranking among the top 3% out of 12 lakh students.
- Leetcode **1650+** Rating
- Codeforces **1000+** Rating