

# Parva Nachan

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Indore, Madhya Pradesh , India

## EDUCATION

### VIT Bhopal University

B.Tech in Computer Science and Engineering, CGPA: 7.77/10

2022 – 2026

Bhopal, India

## TECHNICAL SKILLS

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

**Web & Frameworks:** React, Next, Node, Express, Spring Boot

**Data Science & ML:** Machine Learning, NLP, Data Analysis, TensorFlow

**Databases:** MySQL, MongoDB

**Coursework:** Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks, OOPs, Amazon AWS

## WORK EXPERIENCE

### VLSI Design Intern

Jan 2025 – March 2025

*Verilog, RISC-V, RTL Design, Xilinx, Vivado, ModelSim, Digital Logic*

- \* Designed and simulated a **5-stage RV32I processor pipeline** in Verilog, covering fetch to write-back; ensured full instruction-level functional correctness.
- \* Built **synthesizable RTL modules compliant with RISC-V ISA**, and performed **functional verification using ModelSim**, improving execution accuracy by **25%**.
- \* Developed **control & datapath units using FSM and combinational logic**, optimizing instruction decoding and reducing latency during processor operations.

## PROJECTS

### Onebox – AI-Powered Email Aggregator

June 2025

- \* Built a full-stack **real-time email aggregator** supporting **multi-account IMAP sync**, reducing email retrieval latency by **70%** using persistent IDLE connections & WebSockets.
- \* Built a **Dockerized Elasticsearch-based search engine**, enabling **less than 200ms query time across 10k+ emails** with high-speed indexing.
- \* Integrated Ollama (Llama 3:8b) for on-device AI categorization and RAG-based reply generation, achieving **92% classification accuracy** and **60% reduction in manual response time**.
- \* Developed a modern React + TypeScript UI with push notifications and webhook/Slack automation, improving user task efficiency by **35%**.

### Personal Finance Management API — Spring Boot

Sep 2025

- \* Built a secure RESTful API for personal finance tracking with JWT-based authentication & Spring Security, ensuring 100% protected endpoints and encrypted user data.
- \* Implemented **transaction, budget & category management modules**, enabling real-time financial monitoring and **reducing manual tracking effort by 60%**.
- \* Developed **date-based filtering, budget calculations & analytics logic**, enabling users to track spending trends across **multiple months** with **less than 200ms response time**.
- \* Designed an optimized **PostgreSQL database schema with JPA & Hibernate**, improving query performance by **40%** and ensuring scalable data storage.

## CERTIFICATIONS

MERN Full Stack Certification Program | Ethnus (2025)

The Bits and Bytes of Computer Networking | Google (2023)

## EXTRA-CURRICULAR ACHIEVEMENTS

- Drove **FinTech Club growth by 30%** through strategic PR and outreach campaigns, significantly increasing student participation and engagement.
- Achieved 500+ Codeforces rating and solved 500+ problems across LeetCode, GFG, and CodeChef.

## CO-CURRICULAR ACHIEVEMENTS

- Represented school at the National-Level Football Championship and secured a Silver Medal, demonstrating strong discipline, teamwork, and competitive performance.
- Engaged in multiple **technical and sports activities**, enhancing time management, collaboration, and problem-solving abilities beyond academics.