

SHUBHAM KUMAR SINGH

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SUMMARY

Backend-focused Computer Science student with strong fundamentals in DSA, OS, DBMS, and basic machine learning concepts. Experienced in building practical full-stack applications using Node.js, Express, and MongoDB. Interested in backend development, API design, and applying ML models to small-scale real-world problems. Seeking an internship to deepen backend engineering skills and contribute to production-oriented systems.

TECHNICAL SKILLS

- **Backend Development:** Node.js, Express.js, REST APIs, Middleware, Authentication
- **Databases:** MongoDB, MySQL, Firestore (basic)
- **Programming Languages:** JavaScript, Python, C++
- **Machine Learning (Basic):** Data preprocessing, simple ML models, OCR basics, model integration
- **CS Fundamentals:** DSA, Operating Systems, DBMS, Computer Networks, OOP
- **Tools:** Git, GitHub, Firebase, Netlify, Postman

EDUCATION

B.E. in Computer Science & Engineering

Aug 2023 – Jun 2027 (Expected)

- The National Institute of Engineering (NIE), Mysuru
- Computer Science Fundamentals - DBMS, OOP, CN, OS
- GPA: 8.6 (Current)

Kendriya Vidyalaya COD chheoki, Prayagraj (CBSE)

Apr 2020 – Mar 2022

- Class 12: 94.6% (2022)
- Class 10: 89.4% (2020)

PROJECTS

NeuroShield - Stroke Risk Analysis (Node.js, Express, FastAPI, Supabase) [GitHub](#)

Sep 2025 – Nov 2025

- Built a backend-first system that sends patient data to a lightweight ML model (FastAPI) and returns stroke-risk predictions.
- Integrated a simple **explainability** component showing which input features influenced the prediction (basic LIME usage).
- Implemented secure **role-based access** flow for doctors and patients, and stored records in Supabase for easy retrieval.
- Focused on clean **API design**, modular services, and smooth communication between Node.js and the **ML microservice**.
- Handled data validation and **error management** across both backend services.

Campus Engagement Platform - Utsav (React, TailwindCSS, Firebase, Firestore) [GitHub](#)

Apr 2025 – May 2025

- Built a simple **role-based** portal for college event registration and participation tracking.
- Implemented basic authentication using Firebase Auth and stored event/user data in Firestore.
- Designed a responsive interface for students to browse, register, and view event details.

Mini OCR Pipeline for Product Text Extraction (Python, PaddleOCR, Basic ML Workflow)

Mar 2025

- Implemented a small OCR-based script to **extract text** from product images as a learning project.
- Performed simple cleanup steps (tokenization, structuring) to convert raw OCR output into readable form.
- Integrated the script into a Node.js backend for experimentation.

ACHIEVEMENTS

- DSA Practice: Solved 100+ problems across LeetCode and GFG.
- Organized sessions as part of Anveshan (AIML Club), including ML and coding bootcamps, learning sessions.
- Participated in campus hackathons and technical events.

ADDITIONAL DETAILS

- Languages: English, Hindi
- Interests: Football, Sketching, UI-themed illustrations