SHUBHAM KUMAR SINGH

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SUMMARY

Backend-focused computer science student with strong fundamentals in DSA, web development 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 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, C++, Python*
- Machine Learning (Basic): *Data preprocessing, simple ML models, OCR basics, model integration*
- CS Fundamentals: *DSA, Operating Systems, DBMS, Computer Networks, OOP*
- Tools: *Git, GitHub, Vercel, Postman, Google indexing and OAuth*

EDUCATION

B.E. in Computer Science & Engineering
- The National Institute of Engineering (NIE), Mysuru   Aug 2023 - Jun 2027 (Expected)
- 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

NEURO SHIELD - Stroke Risk Analysis *(Node.js, Express, FastAPI)*   GitHub
(Sep 2025 – Nov 2025)
- Built a backend-first system that analyses patient data using ML model and returns stroke-risk predictions.
- Focused on clean API design and **modular services** implimenting **email OTP verification** on signup maintaining smooth and **safe authentication**.
- Integrated a simple **explainability** component showing input feature influence on the prediction (LIME usage).
- Implemented secure **role-based access** flow for doctors and patients, storing records in Supabase.

UTSAV - Campus Engagement Platform *(React, TailwindCSS, Firebase)*   GitHub
(Apr 2025 – May 2025)
- Built a **role-based** portal for college event registration and participation tracking.
- Implemented manual and **OAuth authentication** using Firebase Auth and stored event/user data in Firestore.
- Designed a responsive interface for students to browse, register, and view event details and rate events.

Mini OCR Pipeline for Product Feature Extraction *(Python, PaddleOCR, ML Workflow)*
(Mar 2025)
- Implemented a small **OCR-based script** to extract text from product images as a learning project.
- Performed cleanup steps like **tokenization**, structuring to convert raw OCR output into readable form.
- Compared F1-scores for multiple models like EasyOCR, PaddleOCR and Tesseract for better performace.

ACHIEVEMENTS

- DSA and problem solving: Solved 150+ problems across LeetCode and GFG.
- Real world experience in product development through open-source and personal projects and participating in global hackathons and tech challenges.
- Organized learning sessions as part of Anveshan (AIML Club), including ML bootcamps and tech talks.