

# 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, Supabase*) [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 simple 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 simple cleanup steps (tokenization, structuring) to convert raw OCR output into readable form.
  - Tested F1-scores for multiple models like EasyOCR, PaddleOCR and Tesseract for better performance.

## ACHIEVEMENTS

- DSA and problem solving: Solved 100+ problems across LeetCode and GFG.
- Real world experience in product development through personal and open-source projects and participating in global hackathons and tech challenges.
- Organized learning sessions as part of Anveshan (AIML Club), including ML bootcamps and tech talks.