Aman Kumar

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PROFESSIONAL SUMMARY

Software Engineer and final-year B.Tech CSE (AI & ML) student who builds full-stack software — three applications shipped with React, FastAPI and JavaScript. A summer as a Data Analyst Intern at Bluestock Fintech meant automating Python and SQL workflows over 50K+ records. Grounded in Data Structures & Algorithms and Object-Oriented Programming, with hands-on work in machine learning, REST API design and development, unit testing and backend engineering. Brings problem-solving, teamwork and communication skills, with a focus on learning quickly.

TECHNICAL SKILLS

Programming Languages: Python, C++, C, JavaScript, TypeScript, SQL
Machine Learning & Data: scikit-learn, Pandas, NumPy, NLP (spaCy), Gemini API, Data Pipelines, ETL, Data Preprocessing
Backend & APIs: FastAPI, Flask, Node.js, Express.js, REST API Design
Frontend: React.js, HTML5, CSS3
Databases: MySQL, PostgreSQL, MongoDB, SQLite
Testing & Quality: Unit Testing, pytest, API Testing, Postman, Debugging
Networking: Computer Networks, TCP/IP, HTTP/HTTPS, DNS, REST
Cloud, Tools & Practices: AWS (Cloud Foundations), Git, GitHub, Agile/Scrum, VS Code
Core CS: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, DBMS

EXPERIENCE

Data Analyst Intern – Bluestock Fintech Jun 2026 – Aug 2026

- Built Python and SQL data pipelines (ETL) that process 10+ structured datasets — 50K+ rows — and lifted data accuracy by 20%.
- Wrote reusable Python scripts for data preprocessing and validation, cutting inconsistencies and duplicate records by 30%.
- 5+ SQL reporting queries and dashboards replaced manual reporting, cutting that time by 40%.

PROJECTS

CareerAI – Career Recommendation Platform Mar 2026 – Present

- Designed and built a career platform: React frontend, FastAPI backend, and a modular multi-stage PDF/DOCX parsing pipeline.
- Underneath it, a scikit-learn classifier trained on 43 categories — 82.58% top-1 and 94.18% top-3 accuracy on a leakage-controlled split — with predictions deployed through REST APIs.
- The model is TF-IDF with a Platt-calibrated linear SVM, trained on the ResumeAtlas corpus — 13,389 resumes, 11,507 after deduplication.
- pytest unit tests cover the FastAPI endpoints and the parser — 23/23 passing — so regressions get caught early.
- **Tech:** Python, React, FastAPI, REST APIs, scikit-learn, pytest, JWT, Docker | github.com/amankumar7571/CareerAI | resonant-kashata-d7e744.netlify.app

SahayakCare – Elderly Care & Medication Management Platform Nov 2026

- Built a passcode-protected care platform for elderly medication management: schedules, adherence tracking (7-day score, day streak), appointments, a care circle with owner approval, a vitals log, and one-tap caretaker email reminders.
- A single self-contained HTML file in vanilla JavaScript and Tailwind, backed by a FastAPI + SQLite API with JWT auth and cloud sync (works offline on localStorage); 909 automated checks pass. Catalyst Hackathon finalist — 96.13/100.
- **Tech:** JavaScript, Tailwind CSS, Python, FastAPI | github.com/amankumar7571/sahayakcare | stalwart-shortbread-198c2f.netlify.app

NaukriRakshak – AI Fake Job Offer Detector Nov 2026

- Built an AI fake-job-offer detector for Indian freshers: paste any job message or offer letter and get a scam verdict with highlighted evidence and plain-language reasons.
- TF-IDF with logistic regression, trained on 117 labelled examples — 24/24 on held-out tests; runs fully in the browser, nothing leaves the device.
- **Tech:** Python, scikit-learn, JavaScript | github.com/amankumar7571/naukrirakshak | sparkly-peony-a6f629.netlify.app

EDUCATION

KIET Group of Institutions (AKTU), Ghaziabad 2023 – 2027 (Expected)
B.Tech in Computer Science & Engineering (AI & ML)
Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, DBMS, Operating Systems, Computer Networks

ACHIEVEMENTS

- Smart India Hackathon 2024: presented a working prototype with a 6-member team at the national level.
- 26 repositories on GitHub, from full-stack apps to ML projects and data tools, maintained alongside coursework.
- Catalyst Solo AI Hackathon 2026: Finalist — SahayakCare, 96.13/100.

CERTIFICATIONS

- AWS Academy Graduate – Cloud Foundations (2025);
- AWS Academy Graduate – Generative AI Foundations (2025);