Sanchit Pandey

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Summary

Computer Science undergraduate with strong academic performance and 6 months of internship experience, combining expertise in full-stack development, AI/ML, deep learning, and GenAI systems. Experienced in building scalable, production-ready applications and intelligent data-driven solutions across real-world projects. Passionate about leveraging solid engineering fundamentals and modern AI techniques to solve complex problems with measurable impact.

Skills

Technical Skills

- **Full-Stack Development:** Next.js, NestJS, REST APIs, JWT Auth, PostgreSQL, Prisma, Firebase, FastAPI
- **AI/ML:** Machine Learning, Deep Learning, Predictive Modelling, CNN, Image Classification, AI/ML Pipelines
- **GenAI Tools:** LangChain, RAG, Prompt Engineering, Vector DB, Semantic Search
- **Tools, Workflow & Core CS:** Git, Agile (Scrum), Data Structures & Algorithms, OOP, DBMS, OS

Programming Languages

- Python, TypeScript, JavaScript, SQL, C++, Java

Soft Skills

- Communication, Teamwork, Adaptability, Problem-Solving, Time Management

Experience

Software Development Intern – Leornier Consulting 06/2025 – 11/2025

(Next.js | NestJS | PostgreSQL | Prisma | JWT | REST APIs | GenAI)

- Developed ScholarNest, an AI-powered edtech platform using Next.js and NestJS, with a modular backend architecture optimized for scalability and long-term maintainability.
- Implemented JWT-based authentication and role-based access control for secure user and product management; designed and maintained 20+ PostgreSQL models using Prisma ORM, improving query performance by 30%.
- Built and tested 30+ RESTful APIs supporting authentication, user actions, and core platform workflows, and contributed to AI-powered career and resume evaluation tools enhancing personalized learning and feedback capabilities.
- Collaborated in a Scrum-based Agile team of five developers, delivering biweekly releases and actively participating in sprint planning and daily standups.

Projects

SHL Assessment Recommendation Engine GitHub | Website

(RAG | Hybrid Search | LLM Reasoning | FastAPI | Gemini)

- Built an AI-powered RAG system to recommend SHL assessments from job descriptions using hybrid retrieval (Gemini embeddings + TF-IDF keyword search) for high-recall candidate selection.
- Implemented LLM-based query rewriting and reranking with Gemini 2.5 Flash, improving Recall@10 from 0.37 to ~0.65+ on an annotated evaluation dataset.
- Designed a lightweight, production-ready backend using precomputed NumPy embeddings (~2 MB, no vector DB) with API key rotation and rate-limit handling (5 RPM per key), exposing the pipeline via an async FastAPI service and Next.js frontend.

InView AI GitHub | Website

(GenAI | Gemini | Firebase | Resume Parsing | ATS Evaluation)

- Co-developed InView AI, a real-time mock interview platform combining LLM-powered question generation, voice delivery, and Firebase-based session management, enhancing interview simulation realism by 50%+.
- Integrated Gemini API for parsing resumes and generating tailored questions based on skills, experience, projects, and certifications, with dynamic difficulty scaling; built a dual-flow system supporting resume-based and topic-based interviews.
- Engineered an ATS feature to evaluate resumes against job descriptions, returning match scores, keyword gaps, and actionable improvement tips, boosting relevance and user feedback accuracy in resume evaluations.

Education

Bennett University Greater Noida – College

B-Tech CSE: CGPA 9.64/10 08/2023 – 05/2027

Vagdevi Vilas School Bangalore – School

School 06/2010 – 05/2023

- CBSE Board: 12th - 90.2% | 10th – 93%

Additional Technical Projects

LexGuard [GitHub]

(RAG | LangChain | FAISS | Mistral-7B | Streamlit)

- Co-developed LexGuard, an AI-powered legal assistant using Retrieval-Augmented Generation (RAG); built a complete pipeline with PDFPlumber, LangChain, and FAISS for sub-second semantic search on 100+ page documents.
- Integrated Mistral-7B via Together AI API with custom prompts to boost legal accuracy by ~40% and deployed an intuitive Streamlit interface for real-time Q&A, improving non-technical user engagement by 60% in trials.

Heart Disease Prediction System [GitHub]

(Machine Learning | Scikit-learn | Classification | Model Evaluation)

- Developed a machine learning-based heart disease prediction system that analyzed key health indicators to assess patient risk, reducing diagnosis time and enhancing early detection accuracy.
- Implemented and evaluated 6 ML algorithms, refining model performance through data-driven insights and boosting overall predictive accuracy by up to 25% in testing scenarios.

Lung Cancer Prediction System [GitHub]

(Deep Learning | CNN | Medical Image Classification | CT Scan Analysis)

- Developed a deep learning–based lung cancer classification system to categorize CT scan images into normal, benign, and malignant classes using a custom CNN architecture.
- Evaluated multiple pretrained models (VGG16, ResNet50, InceptionV3, MobileNetV2, DenseNet121, Xception) and achieved best performance with a custom CNN, demonstrating strong accuracy, precision, recall, and generalization through data augmentation.