Prisha Gupta

Software Engineering Student

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EDUCATION

B.Tech in Computer Science and Engineering,   08/2023 – Present | Pune, India
Indian Institute of Information Technology (IIIT) Pune
CGPA: 7.5

Senior Secondary, *Spring Valley School (CBSE)*   04/2021 – 03/2023 | Barnala, India
Percentage: 91.8%

TECHNICAL SKILLS

Languages: C/C++, Python, JavaScript, Java, SQL

Core Subjects: DSA, OOP, DBMS, OS, Networks, Software Engineering

AI/ML and Tools: NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow | Git, GitHub, Postman, VS Code, Cursor

Web Development: HTML5, CSS3, React.js, Node.js, RESTful APIs, JWT Authentication

PROJECTS

IntelliQuery, LLM-Powered Intelligent Document Retrieval System (LightRAG)
Built an LLM-powered intelligent query-retrieval system using LightRAG that achieves 5x faster retrieval and 84.8% accuracy improvement over traditional RAG pipelines for enterprise document analysis.
- Designed and implemented IntelliQuery, an LLM-powered intelligent document retrieval system for HackRX 6.0, targeting insurance, legal, HR, and compliance workflows.
- Built a LightRAG-based retrieval pipeline combining semantic search, hybrid indexing, and contextual reranking for high-precision answers.. Achieved 5× faster query response time and 84.8% improvement in retrieval accuracy compared to baseline RAG systems.
- Implemented explainable answer generation with source attribution and reasoning traces for enterprise-grade reliability.

Automatic Target Recognition (ATR) in SAR Images using Vision Transformers & ConvNeXt
- Implemented and benchmarked VGG16, ResNet50, ConvNeXt, and Vision Transformers (ViT-B/16) for SAR target classification.
- Achieved 98-99% accuracy using Vision Transformers, outperforming classical CNN baselines by up to 6-7%.
- Used AdamW optimizer, cross-entropy loss, learning-rate scheduling, and data augmentation to improve generalization..
Evaluated models using Accuracy, F1-score, and Confusion Matrix, and analyzed robustness to noise.

Personalized Health Fitness Recommendation System
Developed an ML-powered system to classify users based on BMI, activity levels and goals, recommending personalized plans using XGBoost. Integrated SHAP for explainability.

Smart Digital Wardrobe Outfit Recommender
Built a full-stack web app (React + Node.js) where users upload clothing images and get outfit suggestions using ML-based color/style matching and weather-based filtering.

CERTIFICATIONS

Machine Learning A-Z: AI, Python & R + ChatGPT Prize
Completed in 2025 covered supervised & unsupervised learning, deep learning and project building.

The Complete Full-Stack Web Development Bootcamp
Completed in 2025 - covered HTML, CSS, Javascript, Node, React, PostgreSQL and basics of Web3 and Dapps

AWARDS AND RECOGNITION

Bajaj HackRx 6.0   08/2025
Secured Top 3 leaderboard position among nationwide teams and won the Best Pitchers Award.

Inter-College Debate, COEP   11/2024
Secured 4th place in debate competition and highest individual score in round 1

JEE Mains 2023   02/2023
Scored 97.7 percentile out of over 1 million candidates.

STUDENT EXPERIENCE

Eclectic - Literary Club, *Head*   09/2025 – Present | IIIT Pune
Leading and managing a club of 30+ members. Participated actively in debates, poetry, and writing competitions.

Core Placement Coordinator   03/2025 – Present | Pune, India
Coordinated campus recruitment drives and streamlined communication between students and recruiters.