DIVYANSH GARG

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EDUCATION

Bachelor of Technology in Computer Science & Engineering Expected Graduation: May 2028
Specialization: Artificial Intelligence & Machine Learning | Currently in 1st Year *TGPA/Percentage: 8.8*

Senior Secondary (Class XII) Graduated: May 2025
M.P Board | Percentage: 78%

Secondary (Class X) Graduated: May 2023
C.B.S.E Board | Percentage: 89%

J.E.E Mains January 2025
Percentile: 93.17%

TECHNICAL SKILLS

Programming Languages: Python, C++, JavaScript
AI/ML: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, Data Preprocessing, Feature Engineering, Supervised Learning, Model Evaluation (Accuracy, Precision, Recall, Confusion Matrix)
Backend Development: FastAPI, REST APIs, JWT Authentication, PostgreSQL, SQLAlchemy, Alembic, Pydantic
Frontend Development: HTML, CSS, JavaScript, React (Basic), API Integration
Tools & Technologies: Git, GitHub, Linux, CORS Handling, Debugging, Version Control

PROJECTS

JWT Authentication System *Oct 2026 – Nov 2026*

- Designed secure authentication API using FastAPI with access and refresh token mechanism and token revocation logic
- Integrated PostgreSQL database with SQLAlchemy ORM and Alembic for database migrations
- Implemented security best practices including bcrypt password hashing, token expiration, and CORS configuration
- Developed clean API architecture with Pydantic validation and comprehensive error handling

Full Stack E-Commerce Backend *Oct 2026 – Nov 2026*

- Built comprehensive e-commerce backend with user authentication, product management, and shopping cart functionality
- Implemented RESTful APIs for CRUD operations with proper request validation using Pydantic schemas
- Designed relational database schema with PostgreSQL including proper foreign key relationships and data integrity
- Secured protected routes using JWT-based authentication for user-specific operations

Sentiment Analysis on Text Data *Nov 2025 – Dec 2025*

- Built sentiment classification model to categorize text as positive, negative, or neutral using NLP techniques
- Implemented text preprocessing pipeline including tokenization, stopword removal, and TF-IDF vectorization
- Trained and compared multiple ML classifiers, evaluating performance using accuracy, precision, and F1-score

Pneumonia Detection Using Chest X-Ray *Dec 2025 – Jan 2025*

- Developed ML-based classification system to detect pneumonia from chest X-ray images using Scikit-learn
- Performed data preprocessing, normalization, and feature extraction on medical image dataset
- Implemented evaluation metrics including confusion matrix, precision, and recall with focus on minimizing false negatives for medical diagnosis accuracy
- Gained hands-on experience in handling imbalanced datasets and medical image-based ML workflows

ADDITIONAL INFORMATION

Relevant Coursework: Data Structures, Algorithms, Database Management Systems, Object-Oriented Programming

Strengths: Strong problem-solving abilities, self-learner, quick adaptability to new technologies, collaborative team player