

Aman Patel

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Projects

Banking System API | [GitHub](#)

Feb 2026

- Engineered a secure, scalable backend banking system using FastAPI, enabling efficient user authentication and account management
 - Designed and implemented RESTful APIs for core banking operations including deposits, withdrawals, and transaction history
 - Integrated MySQL with SQLAlchemy ORM for structured data management and optimized database interactions
 - Implemented JWT-based authentication and password hashing (bcrypt) to ensure secure access control and data protection
 - Optimized API performance to achieve sub-200ms response time, ensuring reliable and efficient transaction processing
- Tech Stack: FastAPI, Python, MySQL, SQLAlchemy, JWT

Commodity Price Prediction | [GitHub](#)

Oct 2025

- Developed a machine learning API using FastAPI to predict commodity prices from historical and input features, enabling data-driven forecasting
 - Built and deployed a trained model (model.pkl) using commodity dataset to perform price prediction in production-style settings
 - Integrated a full-stack pipeline including data preprocessing, model serving, and frontend interface (via frontend.py) for user-friendly interaction
 - Achieved high prediction accuracy with sub-1 second inference time through optimized model performance and API-based deployment
- Tech Stack: Python, Pandas, Scikit-Learn, FastAPI, Uvicorn, Pickle, Frontend.py

Training

ByteXL – PEP Program | [Certificate](#)

Jun 2025 – Jul 2025

- Achieved A+ grade in Data Structures and Algorithms (DSA) by consistently demonstrating strong problem-solving and coding proficiency
 - Developed a strong foundation in core concepts including time complexity, recursion, arrays, linked lists, and searching/sorting algorithms
 - Strengthened algorithmic thinking and coding skills through intensive hands-on practice and structured problem-solving session
 - Improved coding efficiency and accuracy by solving multiple problems, enhancing logical reasoning and optimization techniques
- Tech: Java, Data Structures & Algorithms, Problem Solving, Time Complexity

Certificates

Java Programming NPTEL | [Certificate](#)

Nov 2025

Data Structure And Algorithm | [Neo Colab](#)

Sep 2025

Skills

Languages: Python, C++, Java

Technologies/Frameworks: TensorFlow, keras, NumPy, Pandas, Matplotlib, Scikit-learn, Jupyter Notebook

Domain Skills: Data Structures and Algorithms, FastAPI, Computer Vision, Supervised Machine Learning, Image Classification

Education

Lovely Professional University

Since Aug 2023

Bachelor of Technology - Computer Science and Engineering — CGPA: 7.34

Phagwara, Punjab

St. Joseph Mission School

2022 – 2023

12th — Percentage: 64%

Anuppur, Madhya Pradesh

St. Joseph Mission School

2020 – 2021

10th — Percentage: 63%

Anuppur, Madhya Pradesh