Satyam Sharma

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Education

University of Mumbai   Jun 2021 – May 2024
Bachelor of Science in Computer Science   *Mumbai, India*
- **Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Database Systems, Computer Networks, Software Engineering, Distributed Systems

Experience

Software Engineer Intern - Backend & ML   Dec 2024 – May 2025
Kredit (Fintech Startup)   *Remote*
- Engineered scalable ETL pipeline, enabling creditworthiness evaluation for borrowers, processing 4 heterogeneous data sources (Government APIs, CIBIL, internal datasets) and increasing throughput by 50%
- Improved credit scoring model score to 70%+ R^2 through advanced feature engineering (polynomial transforms, clustering, imputation), collaborating with the founding team through code reviews
- Developed alternative creditworthiness scoring system using behavioral signals achieving 85%+ prediction accuracy, enabling risk evaluation for unscoreable applicants
- Designed inference APIs using FastAPI and WebSockets, serving predictions with low latency for real-time credit decision-making

Projects

TalentAI – AI Recruitment Platform | *FastAPI, PostgreSQL, ChromaDB, Ray, spaCy*   GitHub
- Architected microservices platform using FastAPI with Ray distributed computing, enabling parallel candidate-job match evaluations
- Optimized PostgreSQL with composite B-tree and GIN indexes, reducing query latency from 250ms to sub-50ms; implemented ChromaDB with 384 dim Sentence-Transformer embeddings, achieving sub-100ms vector similarity searches
- Built distributed computing infrastructure with Ray for parallel candidate matching and Redis caching layer, achieving 80% hit rate, reducing overall processing time and API costs
- Integrated LangChain orchestration with Gemini/GPT-4 for contextual match explanations and skill gap analysis; implemented async resume parsing with Celery, achieving 85% NLP extraction accuracy across 500+ skill taxonomy

CogniCart – AI E-commerce Analytics | *FastAPI, Next.js, PostgreSQL, OAuth, TanStack*   GitHub
- Developed full-stack analytics platform with FastAPI backend and Next.js frontend, implementing OAuth authentication and RBAC for secure access control
- Designed PostgreSQL schema and optimized complex JOIN queries; used TanStack Table for interactive data visualization, enabling real-time analytics insights
- Implemented semantic search with vector embeddings and RAG-based natural language querying, accelerating insight discovery by 60% through an intuitive query interface

CryptexAI – Cryptocurrency Forecasting | *TensorFlow, FastAPI, React, WebSockets, Optuna*   GitHub
- Built dynamic forecasting system using LSTM, GRU, and Transformer architectures, achieving 92% directional accuracy on 5+ years of historical cryptocurrency data
- Integrated yfinance API for real-time multi-cryptocurrency data ingestion with WebSocket streaming for low-latency bidirectional communication
- Developed backtesting framework with Optuna hyperparameter tuning, improving trading precision by 35% and reducing training convergence time by 40%

Technical Skills

Languages: Python, Java, JavaScript, TypeScript, SQL
Frameworks: FastAPI, Django, Flask, React, Next.js
Databases & Caching: PostgreSQL, MongoDB, Redis, ChromaDB
Cloud & DevOps: Docker, AWS (EC2, S3, Lambda), GitHub Actions, Linux, Nginx