

Aarav Kashyap Singh

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SKILLS

- **Languages:** Python, Java, C++, SQL, JavaScript (ES6+)
- **Frameworks & Libraries:** TensorFlow, PyTorch, Scikit-learn, Keras, FastAPI, Flask, Node.js, Express.js, Pandas, NumPy, React.js, Streamlit, Tailwind CSS, Matplotlib, Seaborn
- **Core Concepts:** Data Structures & Algorithms, Operating Systems, Computer Networks, DBMS, Cloud Computing Fundamentals, Deep Learning, Neural Networks, NLP Pipelines
- **Tools/Platforms:** AWS (Cloud Practitioner – EC2, S3, IAM), Docker, Git, GitHub, MySQL, MongoDB, Railway, Render, Vercel, Power BI, Microsoft Excel, Jupyter Notebook, Postman.
- **Soft Skills:** Analytical Thinking, Structured Problem-Solving, Research Mindset, Ownership, Collaboration, Adaptability, Technical Communication

PROJECTS

CryptoQuant – LSTM-Based Crypto Forecasting Platform | [Link](#)

Feb' 26

- Developed LSTM-based time-series forecasting model using OHLCV data from Kraken and Coinbase APIs.
- Implemented real-time data ingestion and feature engineering with technical indicators (RSI, MACD, Volatility).
- Built and deployed RESTful APIs using FastAPI on Render with automated 24-hour model retraining.
- Constructed an interactive React (Vite) dashboard with confidence intervals and performance validation metrics.
- Integrated model explainability components to provide transparent prediction insights.

Tech Stack: Python, TensorFlow (LSTM), FastAPI, React (Vite), Pandas, NumPy, Coinbase & Kraken APIs, Docker, Render, Vercel

TalentMatch – NLP-Based Resume Screening & Ranking System | [Link](#)

Jan' 26

- Engineered a context-aware NLP pipeline to rank resumes for Computer Science roles.
- Implemented section-aware parsing, skill extraction, and weighted recruiter-controlled scoring.
- Designed comparative candidate evaluation with structured resume previews and CSV export.
- Built scalable REST APIs using FastAPI for dynamic ranking and backend control.
- Optimized ranking logic to prioritize contextual relevance over keyword matching.

Tech Stack: Python, FastAPI (REST APIs), React.js, Tailwind CSS, NLP Pipeline (spaCy, TF-IDF)

TRAINING

JPMorganChase Software Engineering Job Simulation on Forage | [Certificate](#)

Feb' 26

- Integrated Kafka with a Spring Boot microservice to consume and deserialize high-volume transaction messages using configurable topics and embedded Kafka testing.
- Implemented transaction validation and persistence using Spring Data JPA with an H2 database, handling entity modeling and balance updates across relational User records.
- Connected to an external REST Incentive API via RestTemplate, processing incentive responses within transactional workflows.
- Built a REST endpoint to query user balances, returning JSON responses while maintaining clean architectural separation.
- Validated system reliability using Maven test suites and debugger-driven testing across message ingestion, database operations, and external API interactions.

CERTIFICATES & CERTIFICATIONS

- AWS Certified Cloud Practitioner – AWS | [Certificate](#) Feb' 26
- Generative AI - Udemy | [Certificate](#) Sep' 25

ACHIEVEMENTS

- **Solved 150+ Coding Problems:** Jan' 26
Solved 150+ Data Structures & Algorithms problems across LeetCode and other platforms (120+ on LeetCode), strengthening problem-solving in arrays, trees, DP, and graphs.

EDUCATION

- **Lovely Professional University** Punjab, India
Bachelor of Technology - Computer Science and Engineering Aug'23 - Present
- **Excellencia Junior College** Hyderabad, Telangana
Intermediate; Percentage : 70 Apr'21 - Mar'23
- **Delhi Public School** Secunderabad, Telangana
Matriculation; Percentage : 77 Apr'20 - Mar'21

