Ayush Jha

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EDUCATION

Delhi Technological University Delhi, India
Bachelor in Engineering Physics, GPA: 7.0 **Nov 2022 - May 2026**
Delhi Technological University Delhi, India
Bachelor in Engineering (Minor Degree) - Software Engineering **Jun 2024 - May 2026**

SKILLS SUMMARY

- **Languages**: Python, SQL, C++, Assembly, JavaScript
- **Frameworks**: Pandas, Numpy, Scikit-Learn, Matplotlib, Catboost, Tensorflow, NLTK, Flask
- **Domains**: Data Science, Machine Learning, Full Stack Development, Software Engineering
- **Expertise**: Data Science, Machine learning, Deep Learning, Data Structures, Algorithms, NLP, Statistics, EDA, Maths
- **Soft Skills**: Rapport Building, Strong Stakeholder management, People Management, Excellent communication

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WORK EXPERIENCE

DATA & APPLIED SCIENTIST INTERN | R.W.SECURITIES | **Nov 2024- Jan 2024**
- **Conducted advanced analytics** and **visualization** complex portfolio and investment performance data, contributing to **15+ high-impact analytical reports**.
- **Engineered and deployed** ML models to automate administrative workflows, **reducing data processing time by 20%**.
- **Redesigned data pipelines for scalability**, raising operational efficiency by **15%** and streamlining data retrieval processes.
- **Partnered with 3+ cross-functional teams** to **fortify client data security** and enhance **data governance frameworks**.
- **Executed advanced data optimization techniques**, uncovering **10+ critical insights** that influenced strategic investment decisions.

PROJECTS

Transaction Fraud Detection | LINK **Dec 2023- Feb 2024**
- **Developed and deployed** a fraud detection system leveraging **supervised machine learning**, achieving **87% accuracy** in identifying fraudulent transactions.
- **Performed exploratory data analysis (EDA) and statistical anomaly detection**, reducing false positives by **15%**.
- **Optimized ML-driven fraud detection pipelines**, mitigating **transactional fraud by 23%**.
- **Partnered with 3+ cross-functional teams** to align machine learning insights with **enterprise security frameworks**.

Heart Health Prediction Model | LINK **Sep 2023- Oct 2023**
- **Designed and optimized** a predictive model for **stroke risk**, achieving **91% accuracy**, exceeding industry benchmarks.
- **Applied feature engineering and data preprocessing** to improve model precision, reducing **false positive rates by 16%**.
- **Developed data-driven risk insights** by actionable risk insights, improving decisions & **predictive assessment by 23%**.
- **Strengthened patient outcome predictions** through precise risk stratification, **impacting 10+ key healthcare stakeholders**.

Advance ML Text Summarizer | LINK **Jul 2023- Aug 2023**
- **Engineered and deployed** a **ML-powered text summarization model**, achieving **96% accuracy** in content compression.
- **Refined summary coherence by 33%** through **state-of-the-art NLP techniques**, improving readability and contextual flow.
- **Conducted comparative experiments** with **extractive and abstractive summarization**, optimizing model selection.
- **Elevated user experience** by integrating **dynamic summary customization**, positively impacting **15+ users**.

ADDITIONAL INFORMATION

Letter of Recommendation
- Official letter of Recommendation by Prof. Rajesh Kumar (DTU) for excellence in academics and projects. **Jan 2025**

Position of Responsibility
- Programming Mentor IEEE (DTU) Mentored 200+ students to Programme (C++, Python, DSA) **Sep 23- Aug 2024**
- Current General Secretary of VIBE Dance Crew - DTU. **Aug 24- Jun 2025**

Relevant Coursework
- Core subjects : Computational Optimisation, Microprocessor & Assembly, Digital Electronics, Statistics, Calculus, Quantum physics, Mathematical Physics, Business and Financial Management, Engineering Economics, etc.
- Elected courses : Data Structure and Algorithms, Software Engineering, Discrete Mathematics, Object Oriented Software Engg., Cosmology and Astrophysics and mathematical analysis and Advance Wafer and Chiplet processes engineering.

CERTIFICATIONS
- A 12 weeks long Certification course on DATABASE MANAGEMENT SYSTEM by IIT Madras with an offline grading exam.

ACHIEVEMENTS
- WINNER as lead of 6 national level Dance competitions (Crew vs Crew and 1 vs 1), represented in 100+ rounds nationwide.
- Awarded Government Scholarship (CRPF) for performance in Education, 2021 and 2023.