

VRUSHABH JAIN

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PROFESSIONAL SUMMARY

Software engineer combining AI engineering, quantitative research, and product thinking. Building Nautos, Martech Systems' flagship RAG platform, from architecture through production. GNN-based portfolio optimization research paper currently in the publishing phase; also led British Council-affiliated environmental economics analysis. Holds Machine Learning (Stanford), Financial Markets (Yale), Data Analysis (Microsoft), and RPA (Blue Prism) certifications.

SKILLS AND COMPETENCIES

AI and ML: RAG Architectures, LLM Integration, Vector Databases (Chroma, PGVector), Graph Neural Networks, TensorFlow, Prompt Engineering, Semantic Search

Product and Research: SRS Documentation, Requirements Definition, Agile, Statistical Modeling, Hypothesis Testing, Data-Driven Decision Making

Engineering: Python (Pandas, NumPy, Scikit-learn), REST APIs, SQL, FastAPI, .NET Framework, Bash, Git/GitHub, Alteryx

EDUCATION

Kishinchand Chellaram College, HSNL University

Mumbai, India

Bachelor of Science in Computer Science | Expected April 2026

- GPA 9.01/10.0; top semester scores of 9.75 SPI (Sem 4) and 9.60 SPI (Sem 5). Coursework: Data Structures and Algorithms, Advanced Python, Data Science, .NET Framework.

Simon Fraser University

Burnaby, BC, Canada

Bachelor of Science in Computer Science (Transferred) | Jan 2020 – Jun 2022

- Coursework: Calculus I and II, Discrete Mathematics, Introduction to C++, Python.

PROJECTS AND PRODUCT WORK

Cognitive Graph Portfolio Optimizer

Final Year Research Project

Product Owner and Lead Developer | Python, GNN, TensorFlow, Pandas, Git

- Surfaced institutional-grade, dependency-aware risk insights for retail investors by building a GNN-based optimizer trained on 5+ years of historical equity data across 50+ securities and validated against Sharpe ratio and max drawdown benchmarks.
- Prevented scope creep by authoring a full SRS covering user personas, product goals, architecture, and system constraints before writing any code.

Air Quality and Economic Impact Analysis

British Council Research

Lead Researcher | Python, Statistical Modeling, Pandas, Data Pipelines

- Delivered structured, stakeholder-ready research reports for British Council by building Python pipelines to quantify AQI-economic correlations across multi-variable coastal community datasets.

PROFESSIONAL EXPERIENCE

Martech Systems

Apr 2026 – Present

Software Developer, Nautos RAG Platform | Mumbai, India

- Delivered sub-second natural language document retrieval for engineering teams by architecting Nautos, Martech's flagship RAG platform: converting technical documentation into vector embeddings for precise Q&A; owned from spec to production.
- Improved retrieval accuracy through successive iterations by benchmarking LLM outputs against precision and recall targets and tuning chunking strategies and embedding model selection.

The Home Depot

Jun 2020 – Aug 2022

Sales Associate, B2B and Logistics | Vancouver, BC, Canada

- Sustained on-time SLA fulfillment across 50+ B2B enterprise accounts by customising product packages per client specification and coordinating inventory logistics across cross-functional operations teams.

Simon Fraser University, IT Squad

Mar 2021 – Jul 2021

IT Support and Technical Documentation | Burnaby, BC, Canada

- Reduced onboarding friction for 10 new IT staff by authoring standardised troubleshooting documentation and bridging engineering constraints with plain-language guidance for end users.

CERTIFICATIONS AND INTERESTS

Financial Markets, Yale | **Machine Learning**, Stanford | **Data Analysis**, Microsoft | **RPA**, Blue Prism | **Interests:** Quantitative Finance, Indian Equity Markets, Behavioral Economics, Recreational Mathematics