

# VIMAL DHAMA

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## SUMMARY

AI & ML Engineer and Quantitative Analyst with hands-on experience in financial modelling , predictive analytics, and deploying scalable ML/AI solutions. Skilled in time-series forecasting, portfolio optimization, and data-driven decision-making. Proven leader with experience managing teams and delivering high-impact projects in fintech and analytics domains.

## EDUCATION

**Presidency University, Bengaluru, KA – B.Tech in Computer Engineering | Oct 2021 – Nov 2025**

- **Thesis:** Computerized Enrollment and Student Information Systems
- Reliance Foundation Undergraduate Scholarship recipient

## TECHNICAL SKILLS

**Languages & Tools:** Python, R, SQL, Java, C/C++, Golang, JavaScript, HTML/CSS  
**ML & AI:** TensorFlow, PyTorch, Keras, Scikit-learn, OpenCV, SpaCy, Hugging Face  
**Data & Visualization:** Tableau, Power BI, Excel, Jupyter, Spark, Hadoop  
**Databases:** PostgreSQL, MySQL, Oracle, MS SQL, MongoDB, Redis, Cassandra  
**Cloud & DevOps:** Docker, Kubernetes, Git/GitHub, AWS (Cloud Fundamentals), GCP (in progress)

## PROFESSIONAL EXPERIENCE

**Quantitative Analyst – Mudraksh & McShaw Advisory LLP, Noida | Dec 2023 – Aug 2024**

- Improved forecasting accuracy by 15% through advanced time-series financial models.
- Conducted **Monte Carlo simulations** to evaluate investment risk and optimize portfolios.
- Automated reporting via Python & Excel, increasing operational efficiency by 20%.

**Data Analyst – Futurestic Pvt. Ltd., Noida | Sep 2024 – Feb 2025**

- Delivered actionable insights for renewable energy and eCommerce sectors; reduced manual reporting by 30%.
- Led a 4-member team to design interactive dashboards and automated workflows (Python, SQL, Tableau).

## PROJECT EXPERIENCE

**Cardinality-Constrained Portfolio Selection** – Optimized limited-asset portfolios using integer programming, boosting predicted returns by 12%.  
**QuantumTrade-Nexus** – Built a real-time trading platform with 15+ indicators & algorithmic strategies, improving trade decision accuracy and reducing analysis time by 30%.  
**BlockFinAI** – Applied deep learning to detect patterns in stock & crypto charts, increasing predictive trading accuracy by 18%.  
**Ruaroa-AI** – Developed zero-code ML platform automating end-to-end workflows; reduced deployment time from days to minutes.  
**AlgoStockGPT-AI** – Leveraged GPT-4 for real-time financial summaries, accelerating trader decision-making by 40%.  
**Stock-Market-Evaluation** – Automated trendline & support/resistance detection, increasing market trend identification speed by 35%.

## LEADERSHIP & ACTIVITIES

- **Election Commission Member, Presidency University** – Managed elections for 600+ students; drafted rules & coordinated vote counting.
- **Tech Lead, STEM Club** – Organized workshops for 150+ students; represented club at Founder’s Day (60 founders).

## ACHIEVEMENTS & CERTIFICATIONS

- Top 5 – **Presidency Hackathon 2023** (AI & Data Engineering)
- **FMVA® & Accounting for Financial Analysts** – Corporate Finance Institute | Apr–Sep 2025
- **JPMorgan Chase** – Investment Banking Simulation – Forage | Oct 2024
- **Machine Learning & AI Certifications** – Simplilearn, Google (GenAI Apps, Multimodal AI, Responsible AI, RAG, Vertex AI) | 2022–2024
- **Research Publications** – IJIRT: AI-Powered Cryptocurrency Trading Platform; Stock Market Prediction for Manufacturing Consistency | 2025
- **SQL for Data Analytics** – HackerRank; **Cloud Fundamentals** (AWS, GCP in progress), CFA coursework in progress