Aryan Varmora

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PROFILE

Software Engineer with strong academic background and hands-on experience in Python, Java, C#, and full-stack application development. Skilled in building user-focused tools and real-time systems with a focus on performance, modularity, and usability. Passionate about integrating hardware-driven logic into innovative product experiences, with experience in both backend and AI-enhanced interfaces

EDUCATION

Fordham University, Master of Science in Computer Science | GPA: 3.91 May 2026 | New York
- GPA: 3.91 | Relevant Coursework: Software Engineering, Data Visualization, Cloud Computing, NoSQL, Data Mining
- Merit-based scholarship & Graduate Assistantship

Silver Oak University, B.Tech in Computer Engineering | GPA: 3.97 Jun 2024 | Ahmedabad, India
- Relevant Courses: AI & ML, DBMS, OS, Algorithms, Cyber Security, IOT

PROFESSIONAL EXPERIENCE

Fordham University, Graduate Assistant Aug 2024 – Present | New York
- Collaborated with research teams and faculty to scope and document AI systems, ensuring clarity and maintainability across multiple projects.
- Designed and deployed AI models that automated manual tasks, reducing processing time by 35% and increasing decision-making accuracy by 20%.
- Created predictive models to enhance data workflows, improving processing efficiency by 30%.

Neev Infosoft, Intern Sep 2022 – Feb 2024 | Ahmedabad, India
- Enhanced system performance by 30% through database schema optimizations and indexing, improving speed and scalability.
- Designed modular OOP-based software components, reducing maintenance time by 40%.
- Conducted unit & integration testing, ensuring 95%+ test coverage.

IdeaBright Infotech Private Limited, Intern May 2022 – Jun 2022 | Ahmedabad, India
- Researched and analyzed nopCommerce (ASP.NET Core, MS SQL Server) for scalable eCommerce solutions.
- Integrated payment gateway APIs, optimizing transaction processing by 25%.
- Developed custom plugins to enhance eCommerce functionality.

TECHNICAL SKILLS

Programming: Python, Java, C#, SQL, .NET

Machine Learning & AI: • TensorFlow, PyTorch, Scikit-learn, Model Compression, Machine Learning, Deep Learning, Generative AI, LLM Models, Diffusion Models, NLP, Computer Vision, Machine Learning Libraries

Databases: SQL, MySQL, PostgreSQL, MongoDB, Redis, NoSQL

Data Engineering & Big Data: ETL, Data Pipelines, Big Data Tools, AWS (S3, EC2, Lambda), Google Cloud, Spark

Data Science & Analysis: Pandas, NumPy, Matplotlib, Seaborn, Tableau

PROJECTS

Image Caption Generator (Deep Learning, Computer Vision, NLP)
- Developed an AI-powered image captioning model that increased searchability and accessibility with 82% accuracy on the MS COCO dataset.
- Incorporated real-time captioning using OpenCV and TensorFlow, boosting fluency by 15%.

PromptCraft-Finance (LLMs, Prompt Engineering, Generative AI for Finance)
- Developed an open-source sandbox for experimenting with financial prompt engineering using open-source LLMs (Mistral, Phi-2, Falcon).
- Integrated lightweight transformer models using Hugging Face Transformers with custom prompt templates and no dependency on paid APIs.
- Deployed the app on Hugging Face Spaces, empowering financial insight generation and decision support through Generative AI.
- Built a full-stack financial insights tool using Python, Transformers, Gradio, and Docker.
- Designed and deployed interactive APIs for budget planning, investment profiling, and macroeconomic summarization.

PrognosticEngine (Machine Learning, Predictive Analytics)
- Designed a predictive analytics model with feature selection (RFE, Mutual Information).
- Achieved 94% accuracy using supervised learning algorithms (TensorFlow, Scikit-learn).
- Integrated hyperparameter tuning & model evaluation (RMSE, R-Squared) to optimize accuracy.

ACHIEVEMENTS

Graduate Student Ambassador, Graduate School of Arts & Science, Fordham University present

Docker Foundations Certificate, LinkedIn Learning Feb 2025