Chaitanya Handore

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Profile Summary — Master's in Artificial Intelligence student at Dublin Business School with strong expertise in Python, Java, C++, and SQL. Skilled in software development, cloud deployment, and scalable ML pipeline building using PyTorch, TensorFlow, and FastAPI. Adept at automation, API development, and integrating data-driven systems. Experienced in problem-solving, debugging, and full-stack development. Passionate about leveraging AI and software engineering to solve real-world problems through innovation and data-driven design.

Education

Dublin Business School, Ireland   **Sept 2024 – Present**
MSc in Artificial Intelligence
- – Coursework: Machine Learning & Pattern Recognition, Deep Learning, Data Analytics, Cognitive & Ethical AI.
- – Thesis: Crop Pest & Disease Detection — built CNN/Transformer pipelines (ResNet-50, ViT, ConvNeXt) and deployed via FastAPI & Docker with CI/CD.

K.K. Wagh College, India   **Aug 2021 – May 2024**
BSc in Computer Science
- – Coursework: Python, Java, C++, SQL/DBMS, Operating Systems, Data Structures & Algorithms.
- – Final Project: Leave Management System — automated staff leave approvals using PHP/MySQL, reducing query load by 50%.

Technical Skills

Languages	Python, Java, C, SQL, JavaScript	**Cloud/DevOps**	AWS, Azure, GCP, Docker, Kubernetes, Git/GitHub
Frameworks	FastAPI, Flask, React, PyTorch, TensorFlow, scikit-learn, Hugging Face	**Visualization**	Pandas, NumPy, Matplotlib, Seaborn, Power BI, Tableau
Data Eng.	ETL, data modelling, Spark (basics), Kafka (basics)	**Testing**	Selenium, JMeter
Databases	PostgreSQL, MySQL, SQL Server, NoSQL	**Other**	Agile/Scrum, REST APIs, OOP, System Design

GitHub Projects

Crop Pest and Disease Detection (MSc Thesis)
- – Built ML pipelines using CNNs & Transformers (ResNet-50, ViT, ConvNeXt) for 22-class classification.
- – Deployed APIs via FastAPI & Docker with CI/CD integration for production-ready deployment.
- – Designed Power BI dashboards for model performance visualization.

Disaster Relief Routing System
- – Developed routing optimization algorithms using Dijkstra's Algorithm and Knapsack DP.
- – Built Python CLI to compute shortest paths and resource allocations.

Recipe Recommender AI
- – Built NLP-based recommendation system using TF-IDF & cosine similarity.
- – Implemented FastAPI backend and JavaScript frontend for real-time suggestions.

PAC-MAN Reinforcement Learning
- – Implemented Q-Learning & DQN algorithms with PyTorch and OpenAI Gym.
- – Trained intelligent agents to optimize decision-making through reinforcement signals.

Diamond Price Prediction
- – Built regression models (Linear Regression, Random Forest, XGBoost) for price prediction.
- – Conducted EDA and feature selection to improve performance & interpretability.

Stock Price Analyzer
- – Designed Segment Tree & Sliding Window algorithms for financial trend analysis.
- – Visualized buy/sell indicators using Matplotlib & Seaborn.

Graph and AI
- – Implemented BFS, DFS, Dijkstra, and Bellman-Ford in Python.
- – Applied graph theory in AI routing and optimization systems.

Crop-Disease-App-v2 (Hugging Face Deployment)
- – Deployed PyTorch models via FastAPI on Hugging Face Spaces.
- – Integrated real-time inference, upload, and visualization features.

Certifications

- PostgreSQL — Infosys Springboard
- Communication Skills — Tata Consultancy Services
- (In Progress) Microsoft Azure Data Fundamentals

Achievements & Activities

- Solved 600+ LeetCode problems — strong foundation in DSA and algorithms.
- NSS Camp Coordinator — led sustainability initiatives and awareness campaigns.
- Avishkar Competition — presented AI/ML forecasting solutions to academic panels.
- Active on LinkedIn — shared insights on AI, ML, and deployment; consistent 365+ coding streak on GitHub.
- Participated in AI ethics workshops focused on responsible and explainable AI.

Languages

English (Fluent), Hindi (Native), Marathi (Native),

Interests

Artificial Intelligence, Software Development, Data Analytics, Cloud Computing, Cricket, Travel, Reading