

Prithvi Paturi

647-615-2404 | [Email](#) | [GitHub](#) | [Linkedin](#) | [Website](#)

EDUCATION

Wilfrid Laurier University <i>Bachelor of Science in Computer Science, Big Data Concentration — Minor in Math</i>	Waterloo, ON Sept 2022 – Current
• Relevant Coursework: Machine Learning, Regression Analysis, Statistics & Probability, Data Mining, Data Visualization, Calculus I/II/III, Linear Algebra	

EXPERIENCE

CIBC Capital Markets <i>Software Developer Intern</i>	Toronto, ON May 2024 – Dec 2024
• Developed internal applications in Python, Java, JavaScript , and Azure that supported data integration and reporting workflows across teams	
Fresh Water Foods Inc. <i>Web Developer</i>	Richmond Hill, ON Jan 2024 – April 2024
• Automated ETL pipelines with Apache Airflow , reducing runtime by 30% and enabling faster access to trading data for analytics teams	
• Built monitoring dashboards in Azure DevOps to track deployment and runtime status, reducing incident response time by 50%	
• Collaborated with engineering teams to implement automated API testing with REST Assured , improving data reliability for downstream models	

PROJECTS

NBA Player Archetype <i>Python, Flask, Scikit-learn, Pandas, NumPy, Matplotlib</i>	
• Developing a machine-learning model that clusters NBA players by playstyle using advanced efficiency and rate statistics	
• Engineered normalized playstyle vectors and applied K-Means + cosine similarity to quantify stylistic similarity	
• Implementing PCA for dimensionality reduction and deploying a Flask web app that visualizes player networks and supports interactive similarity queries	
• Built modular preprocessing and inference pipeline , preparing for REST API integration and cloud deployment	
Connect-4 AI <i>Python, Pygame</i>	
• Built a fully interactive Connect-4 game with Pygame , allowing human vs. AI gameplay	
• Implemented AI opponent using Minimax with alpha-beta pruning and dynamic board evaluation, achieving a 97% win rate against baseline strategies	
• Designed heuristic board evaluation functions for horizontal, vertical, and diagonal patterns to enable competitive AI decision-making	
TrackME <i>Python, JavaScript, Django</i>	
• Developed a personal finance tracker with Django backend and Chart.js data visualization	
• Applied K-Means clustering and Isolation Forest for anomaly detection, achieving 92% accuracy	
• Integrated News API for personalized financial literacy recommendations	

EXTRACURRICULARS

Laurier Grappling Club <i>Graphic Design</i>	Waterloo, ON Sept 2023 – Present
• Collaborated with club members to establish a cohesive visual identity, ensuring brand consistency across all materials	

TECHNICAL SKILLS

Languages: Python, Java, R, C/C++, JavaScript, HTML/CSS
Big Data & Cloud: Databricks, Apache Airflow, PySpark, AWS, Azure
Data Science & ML: Pandas, NumPy, Matplotlib, TensorFlow, PyTorch, Scikit-learn
Frameworks & Web: React.js, Node.js, Django, Flask
Developer Tools: GitHub, Jupyter Notebooks, VS Code, IntelliJ, Eclipse, Visual Studio
Databases: MySQL, MongoDB, PostgreSQL