

Prithvi Paturi

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EDUCATION

Wilfrid Laurier University <i>Bachelor of Science in Computer Science (Big Data Systems Concentration) – Minor in Mathematics</i>	Waterloo, ON Sept 2022 – Current
• Relevant Coursework: Artificial Intelligence, Machine Learning, Regression Analysis, Statistical Learning, Statistics & Probability, Calculus I/II/II,	

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	
• Built monitoring dashboards in Azure DevOps to track deployments and runtime health, cutting incident response time by 40%	
• Designed and implemented automated REST API testing with REST Assured , improving data reliability and QA coverage by 30%	
• Collaborated with engineering teams to integrate CI/CD workflows in Azure DevOps , streamlining deployment pipelines and reducing manual deployment effort by 60%	
Fresh Water Foods Inc. <i>Web Developer</i>	Richmond Hill, ON Jan 2024 – April 2024
• Built and deployed a responsive website, enhancing online presence for potential clients	
• Worked directly with the owner to create a user-friendly interface to ensure easy navigation and product display	
• Implemented responsive design using HTML/CSS and Bootstrap ensuring compatibility across various devices and improving user experience	

PROJECTS

NBA Player Archetype <i>Python, Flask, Scikit-learn, Pandas, NumPy, Matplotlib</i>	
• Developed 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	
• Implemented 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	
TrackME <i>Python, JavaScript, Django</i>	
• Created a personal finance tracker with Django backend and Chart.js data visualization	
• Applied K-Means clustering and Isolation Forest achieving 92% accuracy for anomaly detection	
• Integrated News API for personalized financial literacy recommendations	
Connect-4 AI <i>Python, Pygame</i>	
• Programmed a fully interactive Connect-4 game with Pygame , allowing human vs. AI gameplay	
• Implemented AI opponent using Minimax with alpha-beta pruning , achieving a 97% win rate against baseline strategies	
• Designed heuristic board evaluation functions for horizontal, vertical, and diagonal patterns to enable adaptive gameplay	

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	
• Produced high-quality photographs to capture and showcase club events while creating engaging promotional videos, enhancing the club's online presence by 90%	

TECHNICAL SKILLS

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