HENRY VENDITTELLI

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EDUCATION

Queen's University - *Computer Science*

Bachelor of Computing (Honours) – Specialization in Cognitive Science *Sep 2021 – May 2025*

- **Awards:** Excellence Scholarship

WORK EXPERIENCE

Empire Life Insurance - *Software Developer*

Kingston, ON *May 2024 – Aug 2024*

- Developed and released end-to-end features for an internal technology reporting tool using React.js, FastAPI, Auth0, and Google's Firestore NoSQL database. Integrated Jira's server platform REST API for automatic ticketing reports.
- Collaborated with cross-functional teams to deliver tested and secure software solutions, leveraging DevOps tools including GitHub Actions, ArgoCD, and Kubernetes for continuous integration and deployment of applications.

360Insights - *Junior Data Scientist*

Whitby, ON *May 2023 – Aug 2023*

- Implemented a generic time series forecasting model using AdaBoost Regressor to predict consumer rebates from preprocessing historical data, fine-tuned hyperparameters to achieve accurate predictions and deployed to AWS.
- Designed a web scraping tool using Python to collect call transcripts from a company database, utilized NLP techniques to preprocess data and used K-Means clustering for modelling common issues from the call center.

CLUBS

QUANTT - *Algorithm Developer*

Kingston, ON *Sep 2023 – May 2024*

- Developed an automated time-series day trading algorithm within quantitative finance using Quant-Connect, to make decisions based on time series data, volatility, and market-impacting news.

Queen's COMPSA - *Orientation Leader*

Kingston, ON *Apr 2023 – Sep 2023*

- Led the computing orientation for incoming first-year students, and hosted an interactive presentation for those interested in entering the cognitive computation specialization.

QMIND - *Innovation Design Team*

Kingston, ON *Oct 2022 – May 2023*

- Contributed to Canada's largest undergraduate artificial intelligence and machine learning organization by finding solutions for understanding typed sentiment through ML and AI technologies.
- Investigated high-level programming languages, and researched use cases of multiple models to develop an innovative solution for a sentiment analysis natural language processing program.

PROGRAMMING PROJECTS

Sentiment Analysis NLP - QMIND: Wrote an NLP program that analyzes the most prevalent emotion in a sentence. This program was trained off a dataset of comments mapping to 1 of 27 emotions produced by Google, and a variety of NLP techniques such as tokenization and stop word removal, to preprocess the sentences. This project uses a fine-tuned version of AlBert to classify a sentence based on which emotion is most prevalent.

TECHNICAL SKILLS

Programming Languages & Technologies: TypeScript, Python (FastAPI, PyTorch, TensorFlow, Keras, Matplotlib, B-Soup), React, Next.js, Tailwind, MySQL, Node.js, Prolog, Lua, Java, Auth0, GCP, GitHub Actions

Design Software: UI (Figma), 3D modelling (Blender, Rhino), photo editing (Adobe Photoshop), graphic design (Adobe Illustrator), video editing, computer-generated imagery (Adobe Premiere Pro, Adobe After Effects)