

JERIN PIOUS

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TECHNICAL SKILLS

- **Languages:** C/C++, Python, SQL, HTML5, CSS, JavaScript
- **Tools:** TensorFlow, PyTorch, Scikit-learn, OpenCV, Azure, MySQL, WSL2, FastAPI, Django, RESTful API, Node.js, Git, Flask, MongoDB Atlas, Hadoop
- **Skills:** Machine Learning, Data Preprocessing, Deep Learning, Neural Networks, Data Pipelines, Batch Processing, Operating Systems, Data Structures And Algorithms, Artificial Intelligence, UNIX, Linux, Agile Development, Version Control, UI/UX designing, Object Oriented Programming, Computer System Architecture, Model Evaluation

EXPERIENCE

ConHacks 2023

Organizer and Co-Founder

Waterloo, Ontario
September 2023 - Present

- Orchestrated and managed the First Hackathon in Conestoga College managing over a 100 participants
- Collaborated with a peer to design and develop the ConHacks landing page, leveraging modern web technologies to create an engaging and user-friendly interface that streamlined participant registration and information access
- Demonstrated management and communication skills while connecting and managing with the participants and organizers

Blackbelt World

Lead Instructor/ Admin

Kitchener, Ontario
June 2023 - Present

- Streamlined client communications by aligning program offerings with customer needs, contributing to a 60% growth in enrollment through clear, professional, and customer-focused interactions.
- Demonstrated teamwork and leadership working with a team of over 5 instructors

PROJECTS

Movie Recommendation System

Python, Numpy, Pandas, Streamlit🔗 Github

- Enhanced recommendation accuracy by building a content-based similarity model using movie metadata and cosine similarity, resulting in personalized movie suggestions and an improved user experience.
- Streamlined data processing workflows by conducting exploratory data analysis (EDA) and cleaning raw datasets, leading to optimized machine learning model performance and faster execution times.
- Collaborated with APIs (TMDB API) and integrated external metadata to construct a scalable data retrieval system, enabling seamless incorporation of over 10,000 movie records into the recommendation engine.

House Price Prediction Model

Python, Sci-kit learn, Pandas, Numpy, Seaborn, Streamlit 🔗 Github

- Developed and deployed a machine learning model for house price prediction using Random Forest and Linear Regression, achieving a 75% R^2 score, showcasing proficiency in supervised learning techniques and model optimization.
- Automated data preprocessing workflows by implementing feature engineering, handling missing data, and applying Label Encoding, ensuring consistent input for model training and improving pipeline efficiency.
- Built an interactive web application with Streamlit to enable real-time user input and predictions, integrating the trained model and demonstrating end-to-end machine learning deployment skills.

Blog Website 🔗 Github

Python, SQL, FastAPI

- Developed a blog application backend by designing SQLAlchemy ORM models and integrating SQLite, resulting in a robust and scalable database structure
- Implemented secure user authentication using bcrypt hashing for passwords, enhancing data security and compliance with industry standards
- Built RESTful APIs with FastAPI for managing blog and user data, improving efficiency and user experience through seamless CRUD operations

Security Camera with AI

Python, OpenCV, HTML, CSS🔗 Github

- Developed a project as a team focused on a system that seamlessly incorporates facial recognition technology, allowing precise identification of individuals within its view
- Implemented features that enhanced the system's security and precision, such as user authentication, audio recording, and detection
- Produced a 95% accurate results in simulated conditions

EDUCATION

Conestoga College, Waterloo, Ontario
Bachelor of Computer Science(Honours)

January 2023 - August 2026(Expected)
GPA: 3.5