Harsh Patel   Software Engineer

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Education

Western University   *Sept 2016 - 2020*
Bachelor of Engineering Science, *Software Engineering*
Founding Director, Western AI: Led the marketing team while organizing and completing projects of a wide range of difficulties and concurrently leading AI/ML workshops

Experience

Deloitte Consulting, Toronto, ON   *May 2018 – Present*
Software Developer, Business Analyst

- Developing **predictive models** using **Python** (**Numpy**, **Pandas**, **Sklearn**, **Scipy**, **Seaborn**) for a Top 5 insurance provider forecasted to **save $800 million** by optimizing auto insurance claims segmentation

- Reconstructing auto claims infrastructure for one of Canada's largest auto insurance provider **saving $1.9 billion annually**. Developed on **GuideWire** using **relational databases (SQL)** to query, clean, store and sort existing data. Built a **data visualization** tool to understand systematic time delays in the backend

- Developer for Canada's **first machine learning-enabled claims transformation** estimated to produce **$1 billion** in protection against loss savings. Implemented conversational chat-bots using **Google Dialogflow**, a live video streaming service using **WebRTC** and a **Tensorflow model** to segment claims based on material damage

- As Project Manager, led **Agile** delivery of a **computer vision** powered eSports Highlight Reel Solution using **OpenCV**, **PyTorch** and **Amazon Web Services** to reduce content editing time by 75%

- Developed testing reports, completed **User Acceptance and System testing**, communicated with the client to understand system requirements for a Cloud Migration project

Projects & Awards

When We Listen – *Best Machine Learning Hack, Hack Western 4*
Leveraged **Microsoft Azure Text Analytics** to identify Twitter users suffering from poor mental health by running **NLP** and **computer vision** on tweets and associated images and files

Liftr – *Ranked Best Software Capstone Project, University of Western Ontario 2019/2020*
Developed a software allowing users to receive workout feedback in real-time through a **mobile and desktop application. Docker** was used to containerize the application to deploy to production, **MongoDB** for document storage, **Redis** in the cloud to perform live critiquing and **React Native** for the front end

Technical Skills and Competencies

- Agile Delivery and Continuous Development
- Digital Product Management
- Databases (SQL, NoSQL)
- Amazon Web Services Certified Cloud Practitioner
- Python and libraries for data analytics and ML
- OOP in Java, C++, Python, JavaScript