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EDUCATION

M.Eng ECE	**University of Waterloo**	**Sep 2022 – Dec 2023**

- Coursework: Specialization in Artificial Intelligence and Machine Learning

B.Tech Computer Science	**Lovely Professional University**	**Aug 2014 – Jun 2018**

- Coursework: Data Structures, Algorithms, Networks, Operating Systems, Machine Learning, Internet of Things

SKILLS

- **Languages:** Python, JAVA, C++, C, Haxe
- **Libraries:** TensorFlow, Keras, PyTorch, AutoGluon, NLTK, Scikit-learn, VaderSentiment
- **Databases:** MySQL, Postgres, Redis, BigData, GraphQL
- **Stack & Cloud:** NLP, Forecasting, Generative AI, Computer Vision, AWS, Google Cloud
- **Tools:** GPT, Docker, DVC, Github, Jira, Jenkins, Confluence, CI/CD

EMPLOYMENT

Machine Learning Associate	**QuickPlay & Vector Institute**	**Dec 2022 – May 2023**

- **Technology stack:** Python, PyTorch, TensorFlow, Google Cloud, BigData
- Formulized Quality of Experience (QoE) accurately using different attributes.
- Analysed various methodologies and techniques to calculate and forecast QoE.
- Exploratory Data Analysis of streaming data to create Forecasting model (QoE).
- Developed Machine Learning models to predict QoE for next 30 minutes.

Software Engineer	**Xperi Corporation**	**Nov 2019 – Aug-2022**

- **Technology stack:** Python, NLP, AWS, Docker, Redis, C, CI/CD
- Developed core algorithms for Advanced Search & Recommendation.
- Implemented new features for conversation product.
- Developed and integrated data publish pipelines for multiple customers.
- Data generation and data merge optimization.

Software Engineer	**TiVo Corporation**	**July 2018 – Nov 2019**

- **Technology stack:** Python, JAVA, C++, Haxe, Javascript, MySQL
- TiVo app development on Android, iOS, Web, and Linux STBs.
- Improved translation and delivered to different customers across major languages.
- Developed HDR, VOD, SOCU and SCTE-27 subtitle feature for TiVo STBs.
- Extraction and analysis of STB and TiVo app logs.

Software Engineer Intern	**TiVo Corporation**	**July 2017 – June 2018**

- **Technology stack:** Python, JAVA, C++, JavaScript, iOS
- Feature development for TiVo iOS app.
- Improved code to reduce app crash rate from 12% to 4%.
- HDMI-CEC feature development for TiVo STBs.
- Optimized translation delivery for multiple languages.

PATENTS

- **Systems and Methods for improving Content Recommendations using a Trained model.** US11551086B2
- **Systems and Methods for improving Comprehensions in Translation based on Context-based references.** US20220100970A1
- **Systems and Methods for Converting an input Content item based on Contexts.** US20220171939A1

PROJECTS

- **Semantic segmentation of Field Anomalies |** Deeplab, ResNet, PyTorch**:** Detecting 9 different field anomalies from field dataset using semantic segmentation.
- **Finding exoplanets using Microlensing |** Keras, Tensorflow, CNN**:** Detecting exoplanets in each image set using principles of Microlensing and CNN.
- **Sentiment Analysis & Feedback |** Tensorflow, Scikit-Learn, Sklearn, VaderSentiment: Recommending content and ranking search based on user sentiment in multiple languages.
- **Child Detection using Voice |** Keras, Tensorlow, Scikit-learn: Detecting child using voice in multiple languages to filter search and recommendation.
- **Seller Management App |** Angular, MongoDB, Nodejs: Managing and recommending shopkeepers about product.
- **Tivo Coins |** Haxe, C++, Java: Creating system to earn and redeem coins for premium VOD content.

AWARDS & ACHIEVEMENTS

- Nominated for Vector AI scholarship.
- High-5 Awards at Xperi for exemplary performance.
- Awarded 4000 USD by TiVo under innovation awards for patent applications.
- Runner up at TiVo hackathon for creating a prototype of TiVo coins.
- Gold medallist at International Olympiad of Mathematics.