Toronto, Canada

## LAKHAN TANAJI KADAM

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### **EDUCATION**

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

Artificial Intelligence and Machine Learning

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

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 7+ different attributes.
- Analysed 4 different methodologies and techniques to calculate and forecast QoE.
- Data Analysis of streaming data to create Forecasting model with an accuracy of 70%.
- 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

- Core algorithms for Advanced Search & Recommendation for 3 products.
- · Implemented 10+ new features for conversation product.
- · Data publish pipeline integration and development for 15+ customers.
- · Machine Learning models for 10+ languages.

#### Software Engineer

#### **TiVo Corporation**

Jul 2018 - Nov 2019

Technology stack: Python, JAVA, C++, Haxe, Javascript, MySQL

- · TiVo app development on Android, iOS, and 2 other platforms.
- Improved translation delivery by reducing delivery time by 75%.
- HDR, VOD, SOCU and SCTE-27 subtitle feature for TiVo STBs.
- Extraction and analysis of STB and TiVo app logs of 10+ GB size.

## Software Engineer Intern

## TiVo Corporation

Jul 2017 - Jun 2018

Technology stack: Python, JAVA, C++, JavaScript, iOS

- 5+ features development for TiVo iOS app.
- Improved code to reduce app crash rate from 12% to 4%.
- HDMI-CEC feature development for TiVo STBs in 1 week.

### **PATENTS**

- · Content Recommendations using a Trained model. <u>US11551086B2</u>
- · Comprehensions in Translation based on Context-based references. <u>US20220100970A1</u>
- · Converting an input Content item based on Contexts. <u>US20220171939A1</u>

### **PROJECTS**

- Semantic segmentation of Field Anomalies | Deeplab, ResNet, PyTorch: Segmenting 9 different field anomalies from field dataset using semantic segmentation.
- Finding exoplanets using Microlensing | Keras, Tensorflow, CNN: Labelling 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: Child voice detection 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.