Toronto, ON, Canada

# LAKHAN TANAJI KADAM

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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
- · 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. <u>US20220100970A1</u>
- 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.