

# LAKHAN TANAJI KADAM

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## EDUCATION

### University of Waterloo

Sep 2022 – Dec 2023

Master of Engineering, Artificial Intelligence & Machine Learning

### Lovely Professional University

Aug 2014 – Jun 2018

Bachelor of Technology, Computer Science & Engineering

## 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

### QuickPlay & Vector Institute

Dec 2022 – May 2023

Machine Learning Associate

- Formulized Quality of Experience (QoE) using 7+ different attributes.
- 4 different methodologies to calculate and forecast QoE.
- Machine Learning models for forecasting next 30 minutes.

### Xperi Corporation

Nov 2019 – Aug 2022

Software Engineer

- Algorithms for Search & Recommendation for 3 products.
- 10+ new features for conversation product.
- Data pipelines for 15+ customers.
- New customer onboarding in 10+ languages.

### TiVo Corporation

Jul 2018 – Nov 2019

Associate Software Engineer

- App development on Android, iOS, and 2 other platforms.
- Reduced translations' delivery time by 75%.
- HDR, VOD, SOCU and SCTE-27 subtitle feature for TiVo STBs.
- Analysis of STB and TiVo app logs of 10+ GB size.

### TiVo Corporation

Jul 2017 – Jun 2018

Machine Learning Intern

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

## PATENTS

- **Content Recommendations using a Trained model.** [US11551086B2](#)
- **Comprehensions in Translation based on Context-based references.** [US20220100970A1](#)
- **Converting an input Content item based on Contexts.** [US20220171939A1](#)

## 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 with an accuracy of 98%.
- **Content recommendation using Sentiment Analysis** | Tensorflow, Scikit-Learn, VaderSentiment: Recommending content and ranking search based on user sentiment in 10+ languages.
- **Child Detection using Voice** | Keras, Tensorlow, Scikit-learn: Child voice detection in 10+ 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 in 2022.
- High-5 Awards at Xperi for exemplary performance.
- Awarded 4000 USD by TiVo under innovation awards for patent applications.
- 2<sup>nd</sup> position at TiVo hackathon for creating a prototype of TiVo coins.
- Ranked 1<sup>st</sup> at International Olympiad of Mathematics in regionals.