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
Software Engineer   **Nov 2019 – Aug 2022**
- 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**
Software Engineer 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.
- 2nd position at TiVo hackathon for creating a prototype of TiVo coins.
- Ranked 1st at International Olympiad of Mathematics in regionals.