

Lakhan Tanaji Kadam

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Education

- Lovely Professional University
Bachelor of Technology, Computer Science (GPA: 9.1/10.0) Punjab, India
Aug 2014 – June 2018

Work Experience

- Xperi Corporation Bengaluru, India
Nov 2019 - Present
Software Development Engineer | Python, Java, C, Clojure, Cython, Shell
 - Developing core algorithms for Advanced Search and Recommendation.
 - Implementing new features for the Conversation product.
 - Developing and integrating data publish pipelines for multiple customers.
 - Data generation and data merge optimization.
- TiVo Corporation Bengaluru, India
July 2018 – Oct 2019
Software Development Engineer | Python, Haxe, C++, JavaScript, Shell
 - Developed core functionality for TiVo STBs.
 - TiVo App development for Android Tv, Apple Tv and Web.
 - Developed HDR, VOD, SOCU and SCTE-27 subtitle feature for TiVo STBs.
 - Extraction and analysis of STB and TiVo app logs.
- TiVo Corporation Bengaluru, India
Jan 2018 - Jun 2018
Software Development Engineer Intern | Python, Haxe, C++, JavaScript, Shell
 - HDMI-CEC feature development for TiVo STBs.
 - Optimized translations delivery for multiple languages.
 - Optimized feature and regression testing for TiVo STBs.
 - Developed tool to monitor service minds availability.
- TiVo Corporation Bengaluru, India
Jul 2017 - Dec 2018
Software Development Engineer Intern | Swift, Objective-C, Python, C, JavaScript.
 - Developed application features for TiVo iOS app.
 - Optimized regression and smoke testing for TiVo mobile app.
 - Fixed and dev tested bugs for TiVo mobile app.
 - Optimized memory management for TiVo mobile app.
- VenturePact LLC Punjab, India
Jun 2017 - Jul 2018
Software Development Engineer Intern | MongoDB, Express.js, Angular, Node.js
 - Developed placement portal for students.
 - Optimized website performance and regression testing for placement portal.

Technical Skills

- Programming languages : Java, Python, C/C++, Haxe, Closure, JavaScript, Shell
- Libraries: NLTK, PyTorch, Keras, TensorFlow, Scikit-learn, Pandas, SpaCy, Gensim, Wapiti, Numpy
- Databases : MySQL, PostgreSQL, Redis, MongoDB, GraphQL
- Stack: NLP, NER, CRF, RASA, AWS Cloud, Docker, DVC, Supervisor, Jenkins, ELK, Zabbix, Apache
- Frameworks: Django, Flask, Angular, jQuery
- Developer Tools: GitHub, Jira, Confluence, Gitlab, VS Code

Patents & Publications

- Systems and Methods for Improving Content Recommendations Using a Trained Model
(us 16/806,991, us 16/806,995) [\[Link\]](#) [\[Draft\]](#)
 - Problem Statement: Current recommendation systems do not recommend interesting clips for a content.
 - Solution: Suggest points of interest using LSTM Recurring Neural Networks.
- Systems and Methods for Improving Comprehension in Translation Based on Context-based References
(us 17/036,696) [\[Draft\]](#)
 - Problem Statement: Current translation systems do not consider local regional factors for context references.
 - Solution: Replace entity by comparing qualities of the previous entity by giving weightage to the factors.
- Systems and Methods for Converting an Input Content Item Based on Contexts
(us 17/108,180) [\[Draft\]](#)
 - Problem Statement: A word can have several meanings based on region and can mean differently in a region.
 - Solution: Consider regional factors and replace it with another global word using knowledge graph.

Projects

- Named Entity Recognition [\[GitHub\]](#) | Python, Keras, TensorFlow, Numpy, Sklearn, Pandas
 - Named Entity Recognition for dataset using Neural Networks
- Text Emotion Detection [\[GitHub\]](#) | Python, Sklearn, SVC, LSVC, RFC, DTC
 - Detecting emotion in text using different classifiers
- Email Spam Detection [\[GitHub\]](#) | Python, Sklearn, Numpy, NLTK
 - Filtering spam emails using multinomial NB
- Product Recommendation System [\[GitHub\]](#) | Python, Pandas, Numpy
 - Recommending products based on history and preferences
- Seller Management App [\[GitHub\]](#) | JavaScript, Angular, MongoDB, Node.js, TypeScript
 - Managing shopkeeper purchase and sell of products
 - Recommending product to shopkeepers for buying based on demand
- Perforce Shelve Patcher [\[GitHub\]](#) | Python
 - Script to shelve and un-shelve perforce history to and from zip

- TiVo Coins | Python, Haxe, C++, JavaScript
 - Providing coins as reward for customers watching premium VOD content.
 - Redeem coins to unlock other premium VOD content.

Presentations

- Tech Talk: Quantum Computing at TiVo (September 2019)
- Intern Showcase: TiVo Stream and STB (June 2018)
- Intern Showcase: TiVo iOS app (Jan 2018)

Awards & Honours

- 4000 USD by Xperi under innovation awards (2020)
- High-5 Award at Xperi for exemplary performance (2020 & 2021)
- Runner up at TiVo Hackathon (2019)
- Runner up at CodeStorm event by ACE LPU (2015)
- Winner at AstroQuiz event (2014)
- Awarded 50% scholarship as waiver in tuition fees (2014)
- Gold medallist in International Olympiad of Mathematics (2012)

Competitive Programming

- LeetCode: 3.5* out of 5
- CodeChef: 2* out of 5

Certifications

- iOS 11 & Swift 4 – The Complete iOS App Development Course [\[Certificate\]](#)
- Artificial Intelligence A-Z: Learn How to Build an AI [\[Certificate\]](#)
- Machine Learning A-Z: Hands-On Python & R in Data Science [\[Certificate\]](#)
- The Complete React Native + Hooks Course [\[Certificate\]](#)

Organizations

- Armour of Care (AoC) Member Sept 2018 – Present
 - Helping defence veterans for recruitment in civil jobs
 - Serving fellow citizens in case of natural calamities
 - Providing quality education to deprived children
- Uttara Astronomy Club Aug 2014 – Dec 2016
 - Organizing telescope observation events and seminars
 - Encouraging students to learn about astronomy