

# Lakhan Tanaji Kadam

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## Education

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

## Work Experience

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- 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 – Nov 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, SOCU and SCTE-27 subtitle feature for TiVo STBs.
  - Extraction and analysis of STB and TiVo app logs.
- TiVo Corporation Bengaluru, India  
Jan 2018 - Jul 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 - Jan 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

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- 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

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- 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

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- 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

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- 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

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- 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)

## Certifications

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- 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

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- Armour of Care (AoC) Member Sept 2018 – Present
  - Helping defence veterans and active personnel 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