

# Akshit Abhay Keoliya

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## SUMMARY

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Proactive and adept engineer with a focus on high-quality and prompt work. Skilled in Artificial Intelligence. Currently pursuing MS in Artificial Intelligence at University of Southern California. I am seeking opportunities that will advance my career in the field of machine learning and intelligent systems.

## EXPERIENCE

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### Machine Learning Intern, Sagveek Technologies Ltd, India

Mar 2019 – Oct 2019

- Studied variety of libraries such as TensorFlow, NLTK, Scikit-Learn, Pandas, Numpy, Requests and Tkinter.
- Completed different industry level projects such as Restaurant Review Systems, Sentiment Analysis applications and Recommender systems.

### Junior Data Analyst, StackZeal Pvt. Ltd, India

Jan 2021 – May 2021

- Worked on identifying trends in pricing for online courses and analyzed popular techniques for user capture.
- Designed TPO portal for EngineersConnect website collaboration with MES College of Engineering.
- Performed auxiliary work such as designing posters and PowerPoint presentations, helping in popularizing and spreading user base of EngineersConnect, etc

## PROJECTS

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### Tracking System with Multi-Camera Surveillance

- Designed a Tracking System that would predict object movements using video data from surveillance system.
- Implemented a mapping technique of object characteristics in 3D coordinate system.
- Utilized specialized Recurrent Neural Network layer called LSTM for multi-step time series forecasting.
- Published corresponding research paper in International Organization of Scientific Research journal.

### H&M Personalized Fashion Recommendations

- Built an Ensemble based recommender for “H&M Fashion Recommendation” competition on Kaggle.
- Employed LSTM, K-Means, Principal Component Analysis, and other algorithms in a two staged ensemble model which achieved a mean average precision of 0.0242 score.

### Little-Go Agent

- Developed a reinforcement learning agent that plays Go with reduced board size of 5x5.
- Implemented alpha-beta pruning and Q-learning algorithms for the agent.
- Achieved a Win/Draw score of 96% against random player by employing Q-learning algorithm.

### Amazon React Clone Website

- Built and deployed an Amazon clone website using React and Firebase hosting
- Managed user and order information using the React Context API and Firebase Firestore.
- Implemented a payment module using Stripe.js and Cloud Functions.

## EDUCATION

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### Master of Computer Science, Artificial Intelligence

Aug 2021 - May 2023

Viterbi School of Engineering, University of Southern California

Relevant Coursework: Foundations of Artificial Intelligence, Analysis of Algorithms, Machine Learning, Web Technologies, Applied Natural Language Processing, Database Systems.

### Bachelor of Engineering, Computer Engineering

Aug 2016 - Jul 2020

Savitribai Phule Pune University

SGPA: 9.19

## INVOLVEMENT

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### Deputy Director, Association of Indian Students, University of Southern California

Aug 2021 - Present

Arranging cultural events throughout the year to celebrate and spread the values of Indian Festivals.

### Mentor, Developer Student Club, MES College of Engineering.

Sept 2019 – May 2021

Taught students the concepts of Deep Learning and Mobile Application Development by organizing various technical events.

## SKILLS

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**Programming Languages:** Python, Java, JavaScript, C/C++

**Machine Learning:** Data Mining, Analysis and Visualization, Feature Extraction, Data Pipelining, Predictive and Quantitative Analysis, Supervised, Unsupervised and Reinforcement learning algorithms, Deep Learning algorithms, Web Scraping.

**Web Technologies:** Angular, Django, Flask, React, Flutter

**Database Technologies:** MySQL, SQLite, Cloud Firestore

**Operating Systems:** Windows, Ubuntu, Mac, Android.