

# Omkar Ghanekar

A fast learner and solution-oriented graduate student from UC Santa Cruz specializing in Artificial Intelligence and Machine Learning with 3 years of work experience as a Software Engineer

Santa Cruz, California  
Mobile: (408)-876-2286  
Email: omkarghanekar95@gmail.com  
oghaneka@ucsc.edu  
LinkedIn: omkarghanekar

## Education

SEPT 2021- PRESENT  
MS IN COMPUTER SCIENCE  
UC Santa Cruz, California  
GPA: 3.93/4.0

JULY 2014- JULY 2018  
B.E. IN COMPUTER ENGINEERING  
PICT, University of Pune  
CGPA : 8.62/10

## Skills

### LANGUAGES

Python, Javascript, C++

### FRAMEWORK AND LIBRARIES

Django, ReactJS, D3, Redux, Flask,  
Keras, ElasticSearch

### DATABASES

MySQL, PostgreSQL, MongoDB

### VERSION CONTROL SYSTEMS

Gitub

## Coursework

Data Structures  
Analysis of Algorithms  
Database Management Systems  
Operating Systems  
Distributed Systems  
Machine Learning  
Natural Language Processing  
Information Retrieval  
Web Applications

## Projects

### MARCH 22 - JUNE 22 Impact of Text Summarization on Search Results

Built a summarized Wikipedia search engine to determine the performance of system on condensed data. Used Auto-Encoder Decoder to summarize text and ElasticSearch for search engine.

**Accuracy** : 70% -75% precision and recall as compared to non-summarized data query results.

### JAN 22 - MARCH 22 Chess Engine

#### Artificial Intelligence

Created a mini chess engine using tools like **Minimax algorithm**, **Quiescence search** for different depth analysis and gameplay.

**Accuracy** : 92% correct and optimal moves

### AUG 17- FEB 18 Human Actions Recognition model

#### Computer Vision

Implemented a Human Actions Recognition model providing results in real-time using **2D and 3D ConvNet** model in Keras and TensorFlow.

**Testing accuracy** : 87% **Training Time** : 15 minutes

### JAN 18-MARCH 18 Flora and Fauna detection

Implemented a **Mobilenet architecture** and deployed it on Android for detecting animal species. Used **Keras** for training the model and **Android Studio** for developing the android application.

**Training accuracy** : 94.7%

## Work Experience

### JUNE 2022 - PRESENT

#### SWE Intern at Arista Networks

Working on integrating support for live span-controller traffic inspection via Wireshark GUI on a CCF controller to reduce the wait time with the Big Switch team. *Python, Docker, Java, virtualization*

### SEPT 2018-JULY 2021

#### Software Engineer at Soft Corner

Developed scalable **REST web services** capable of handling large amounts of data for the major workflow execution modules and the user integrations including OAuth and report generation.

Automated the **deployment pipeline** to reduce the server downtime by **3x**.

Integrated transactional messaging and email services using Twilio and MailGun to reduce system overhead.

*Python, Django, MySQL, ReactJS, AWS, Docker*

## Awards and achievements

### Quark Goa 2018

3rd prize

Secured **80 percentile** for presenting a prototype model of machine learning framework that inferences actions in particular set of videos.

### VNIT, Nagpur 2018

2nd prize

Secured **95 percentile** at Project contest at VNIT Nagpur for creating an Android application for recognizing flora and fauna.

### Event Coordinator Pradnya 2016

Worked as a **Event Coordinator** and Problem setter for the annual technical hackathon, Pradnya at PICT