

Venkata Aditya Kuppa

adityakuppa26.github.io | adityakuppa27@gmail.com | +91 9573573424 | linkedin.com/in/aditya-kuppa-246278129/

EDUCATION

Chaitanya Bharathi Institute of Technology, Hyderabad, India CGPA: 8.56, April 2019
Bachelor of Engineering, Computer Science and Engineering

- Relevant Coursework: Discrete Mathematics, Data Structures and Algorithms, Database Management Systems, Operating Systems, Theory of Automata, Machine Learning, Object-Oriented Programming.

SKILLS

- **Languages and Tools:** Python, C++, Javascript, HTML, CSS, SQL, Django, GIT, Jenkins, JIRA, Linux, Matlab.
 - **Other Technologies:** Deep Learning, Reinforcement Learning, PyTorch, Tensorflow, Keras, Agile.
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EXPERIENCE

Oracle Corporation, Hyderabad, India

Software Developer 2 July 2021 – Present
Software Developer 1 June 2019 – June 2021

- Developed REST APIs using Python for interaction between back end and front end across services.
- Developed new features, web pages, reports and scheduled jobs to send emails to the users.
- Upgraded the Textura Payment Management application from Python 2.7 to Python 3.7.
- Integrated analytics with various web services.
- Built Jenkins pipelines to automate development and testing tasks.

Oracle Corporation, Hyderabad, India

Project Trainee Jan 2019 – June 2019

- Migrated the Oracle Taxtura web service from .NET to Django.
- Learned about micro-services and the communication between them to perform the specified tasks.

Defence Electronics Research Laboratory (DLRL, Govt. of India)

Research Intern Feb 2018 – April 2018

- Implemented Network Monitoring Software in JAVA to monitor and analyze the network between two radio devices.
- Closely studied network sniffing tools like RabbitMQ, WireShark.

PROJECTS

Human Activity Recognition for Video Surveillance

- Built an activity recognition system that detects and alerts about suspicious human activities via LEDs and alarm in a real-time video.
- Trained various networks like VGG-16, Resnet-34, CNN+LSTM etc. on the augmented and pre-processed dataset.

Game Playing with Reinforcement Learning - [Code](#)

- Implemented several popular reinforcement learning algorithms to successfully solve game playing problems like blackjack, cart-pole, windy grid-world, cliff walking, etc.
- All the algorithms are implemented from scratch using Python and libraries like numpy, openai gym, matplotlib, etc.

Neural Style Transfer - [Code](#)

- Developed a deep learning application that combines the content of an image with the style of an art to produce new images.

- The application is implemented using Tensorflow and Keras along with the supporting libraries and uses the VGG-19 model for generating the feature representations.

Human Name Generator - [Code](#)

- Developed a supervised NLP application that uses character-level language modeling to generate new human names.
- The RNN implemented from scratch using Python, learns from a million examples through mini-batch gradient descent.

Movie Recommendation System - [Code](#)

- Developed a recommendation system that recommends a set of movies based on user's watch history and past up-votes.
- Implemented in Matlab using Collaborative Filtering Algorithm.

Personal Blogging Website - [Code](#)

- Developed a fully functional blogging website using Flask. SQLite has been used for the database.
- Functionality includes creating accounts/logging in before the user can post on their blog. The users could also comment on and like the posts of the other users.

ACHIEVEMENTS AND COURSES

Open-Source Contributions

- Contributed to open-source machine learning libraries like matplotlib and datascience.

Recruitment by Oracle Corporation

- One of the 25 students to be recruited by Oracle from a pool of 1000+ applications across 3 different colleges.

Finalist of AngelHack-2018.

Certification course in Deep Learning Specialization by deeplearning.ai.

Completed Stanford's CS231n: Convolutional Neural Networks for Visual Recognition course.

Completed DeepMind's Reinforcement Learning Course taught by David Silver.

EXTRA CURRICULARS

- Volunteer at Oravolunteers, Oracle.
- Enthusiastic nature and landscape photographer.
- Core member of the Coderplex AI community.
- Volunteer at Robin Hood Army NGO.