Venkata Aditya Kuppa

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EDUCATION

University of Massachusetts Amherst, Amherst, USA   CGPA: 3.9, January 2022 - Present
Masters in Science, Computer Science

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

SKILLS

- **Languages and Tools:** Python, C++, Java, Javascript, HTML, CSS, SQL, Django, GIT, Jenkins, JIRA, Linux, Matlab.

EXPERIENCE

Oracle Corporation, Hyderabad, India
Software Developer 2   July 2019 – December 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.

Oracle Corporation, Hyderabad, India
Project Trainee   Jan 2019 – June 2019
- Migrated the Oracle Taxtura web service from .NET to Django and 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.

PROJECTS

Keyword-Based Fiction Generation - [Code]
- Conditional text generation that produces genre focused textual plot based on a given set of keywords.
- Fine-tuned the GPT-2 model using the CoQA dataset and a manually created dataset to obtain the baseline model. Alternatively, applied the PPLM approach to generate text without fine-tuning the base model.

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.

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.