Venkata Narasimha Sai Uday Gattupalli

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EDUCATION

Stony Brook University   **Stony Brook, NY**
M.S. in Computer Science   *August 2022 - May 2024*

Indian Institute of Technology Bhilai   **Raipur, India**
B.Tech in Computer Science & Engineering (GPA: 3.82)   *July 2017 – May 2021*

SKILLS

Skills: Machine Learning | Artificial Intelligence | Data Science | Data Mining | Full Stack Development | Database Design | Information Retrieval | RESTful APIs

Languages: Python | C++ | Java | C

Development Tools: Flask | MySQL | fast.ai | Node.js | React | Git | Docker | Kubernetes | AWS | GCP | Jira | Confluence | Elasticsearch | Postman | PyTorch | Tensorflow | Redis

WORK EXPERIENCE

Sterlite Technologies Limited   **Gurugram, India**
Graduate Engineer Trainee   *July 2021 – July 2022*

- Designed, developed, and implemented various features of network switches (in line with the current market switches) in SONiC (an open-source network operating system developed by Microsoft and the Open Compute Project).
- Documented all the findings of function call flows between different containers in SONiC onto Confluence, thereby reducing the training time for new employees by 30%.
- Mentored new employees with the prerequisites related to Network Operating Systems, SONiC, Docker, and other tools used in the project.

Max Secure Software India Pvt. Ltd.   **Pune, India**
Software Engineer Intern   *May 2020 - August 2020*

- Implemented a proof-of-concept model for malware detection using Convolutional Neural Networks which classified malware into their respective families with an accuracy of 98%.
- Built a Full Disk Encryption software for Windows environment based on an open-source project with new features added to the software such as a provision to send important encryption information to the company's cloud servers via APIs and a provision for system administrators to encrypt a disk, volume or some files remotely through APIs.

International Institute of Information Technology Hyderabad   **Hyderabad, India**
Software Engineer Intern   *May 2019 – June 2019*

- Designed, developed, and documented a modular web application (Open Voice) and integrated the modules (corpusStorage, speechDataCollection, speechDataTranscription, monetization (payouts module)) via REST APIs to collect speech data of various Indian languages from users across the country.
- The collected speech data was used to train a Natural Language Processing model which translates speech from one Indian language to another as a part of a Government project.

PROJECTS

Expense Tracker
Full Stack Development (MERN Stack)

- A cloud-based cross-platform app for both iOS and android to track personal income and expenses.
- Designed a MongoDB schema to store data and generate insightful reports and graphs on weekly and monthly timelines.
- Automated the process of adding a new transaction from transaction alert mails using Gmail APIs.

Colorizing Black & White Images
Machine Learning

- A project done as a part of Machine Learning course under the guidance of Dr.Sk Subidh Ali at IIT Bhilai.
- Built a CNN model trained on the ImageNet dataset which takes black and white images as input and outputs images with plausible colors by leveraging the properties of CIE L*a*b colorspace.

Analysis of Twitter data for the 2020 US election
Data Analytics & Visualization

- Collected tweets using the tweepy library along with Twitter APIs and performed sentimental analysis using the VADER model as a part of the Data Analytics & Visualization course at IIT Bhilai.

CERTIFICATIONS & TRAINING

Data Science - Machine Learning Course
IBM OpenPower AI

- A month-long course mainly focused on fundamentals of Data Science, Machine Learning, and Big Data with hands-on learning using open-source tools conducted by the OpenPower foundation of IBM.

Machine Learning Course
Stanford Online

- Learned the mathematics behind supervised machine learning models for prediction and classification and how to implement those models with python.