Sai Chandra Reddy Vuta

Machine Learning Engineer & Data Scientist

A focused & goal-oriented professional, targeting assignments in **Data Science, Machine Learning & Computer Vision** with an organization of high repute preferably in Hyderabad

Mobile: +91 9010785607 **E-Mail:** vsaichandrareddy@gmail.com **LinkedIn:** sai-chandra-reddy-vuta-946b2b133

Profile Summary

- A budding professional offering over 1 year of exposure in the field of **Machine Learning & AI in IT Industry**
- Competency in research & implementation of **appropriate ML Algorithms and AI Tools**
- Capability in devising & implementing **Statistical / Predictive Models and Machine Learning Algorithms** utilizing diverse sources of data & insightful knowledge of various programming languages such as **C, C++, CSS,SQL and so on**
- Keen interest in applying the knowledge of **Machine Learning based-Tools, Building AI Tools that automate certain processes** within the company
- Know-how of **deploying suitable analysis tools** to attain a competitive edge on the market; providing insights on **trends, analysis, opportunities, projections to build tools**
- Capabilities in in **gathering & understanding requirements of clients & stakeholders** followed by translation into functional specifications as well as provisioning of suitable solutions
- Worked for the data manipulation with **SQL with Machine Learning Models & used SQLite with Python**
- Hands-on various libraries in python like **NumPy, Pandas, Matplotlib, Seaborn, Keras and Machine Learning Libraries like Scikit learn, TensorFlow, PyTorch and so on**
- Created Machine Learning Library in **Java Script (Open Source Library) named "OxygenJS" published GitHub**
- A leader with strong verbal & written communication and analytical skills with a critical thinking & problem-solving capability

Core Competencies

- Algorithm Development
- Research & Evaluation
- Artificial Intelligence & Data Science
- Machine Learning Algorithms
- Requirements Gathering & Analysis
- Project Management & Execution
- Client Coordination
- Deep Learning & Computer Vision
- Training & Development

IT Skills

- **OS:** Windows, Linux, Kali Linux
- **Tools:** Tableau, Excel, MS Office, Word, Virtual Box
- **Programming Languages:** Python 3, JavaScript, Java, C, C++
- **Database:** SQL
- **Frontend:** HTML, CSS, JavaScript
- **Backend and Cloud:** Flask, AWS
- **Frameworks**: TensorFlow, Keras, PyTorch, sci-kit learn
- **Libraries:** Numpy, pandas, Matplotlib, seaborn, SQLalchemy, Librosa, Scipy and so on
- **Maths:** Statistics, Probability

Soft Skills

- Innovator
- Planner & Thinker
- Team Oriented
- Leader
- Communicator
- Motivator
- Trainer

Notable Achievements Across the Career

- Worked closely on sound analytics with very low availability of data on it and created models for sound analysis using Deep Learning for Maruti Suzuki, TVS and so on in Novelytics Co.
- Supervised nearly 1800+ students & 200+ teachers on Data Science & Python
- Created a Library named "Deep Mail" using Python
- Suggested ideas in group meetings such as giving tokens to the users, creating Decode Coins, generating referral links and so on in Decode AI
- Created Face Recognition system using OneShot Detection and Triplet Loss in AI Orbitech & sound recognition deep learning model using python libraries like librosa, numpy, pandas, keras, tensorflow and so on in Novelytics Co.

Education

- **2020:** B.Tech. in Computer Science & Engineering from Lovely Professional University, Jalandhar
- **2016:** 12th from Sri Chaitanya Junior College, Guntur, Andhra Pradesh
- **2014:** 10th from Oxford International School, Guntur, Andhra Pradesh

Work Experience

Jun'21 – till date: Novolytics. Co., Pune as Data Scientist

Key Result Areas:

- Using Machine Learning and Statistical Modelling Techniques to develop and evaluate algorithms to improve performance, quality, data management and accuracy
- Researching and implementing appropriate ML Algorithms and Tools
- Extracting data from s3 buckets and building models and deploying on AWS through API's
- Writing Product Technical Specs, Database Tables, Data Flow Diagram for product work
- Developing sound recognition Deep Learning Model using Python Libraries like Librosa, Numpy, Pandas, Keras, Tensorflow and so on
- working closely on the project named "Hark Engine"
- worked with ML Flow for monitoring the models and Sage Maker to train and test on the AWS using data directly from s3 buckets

Sep'20 – Dec'20: Decode AI, Noida as Data Scientist

Key Result Areas:

- Designed AI/UI products for the application & suggested many ideas in the group meeting giving tokens to the users, creating Decode Coins, generating referral links and so on
- Worked as the Content Creator for the organization & supervised hundreds of students
- Coordinated with students & helped them with the Computer Vision Projects and NLP Projects
- Led the design & development of platforms, integration of services with product for excellent management and ensured the accomplishment of project goal

Apr'20 – Aug'20: NameError.ai, Hyderabad as Machine Learning Engineer

Key Result Areas:

- Trained 100+ students in Data Science & Machine Learning & led the team of 5 members of content developers
- Developed the product for the Health Care to predict the diseases in human beings using Machine Learning

Part Time Experience

Feb'21 – May'21: AiOrbitech, Hyderabad as Data Scientist (Part Time)

Key Result Areas:

- Formulated plans, prototypes, proposals and high-level design for new features, managed Project Team encompassing Development and Testing Team & operated on both software as well as hardware
- Developed Deep Learning Algorithms and deployed on Raspberry pi & Jetson Nanos
- Worked closely on AI Attendance Management System for Andhra Pradesh, Telangana, Karnataka and Madhya Pradesh

Jan'21 – Mar'21: ViHaVe Innovations, Hyderabad as Data Scientist (Part Time)

Key Result Areas:

- Collaborated with Logistics Company & worked on local products
- Generated Computer Vision Algorithm to find similar images and Led the team of 5 members & wrote web app flask & api's flask

Internship

Apr'19 – Mar'20: Orbit Shifters, Hyderabad as Deep Learning Engineer (Internship)

Key Result Areas:

- Trained the team on Machine Learning Algorithm
- Worked on various projects such as Action Recognition, Speed of Object in Video and Angle in Pose Estimation using Python, Keras, OpenCV and so on

Personal Details

Date of Birth: 6th January 1999

Languages Known: English, Hindi & Telugu

Address: Guntur, Narasaraopet, Andhra Pradesh – 522601

Annexure

Jun'21 – till date: Hark Engine in Novolytics Co.

Key Result Areas:

- Created sound recognition deep learning model using python libraries; deployed the model on AWS to use this on android apps; worked as a Data Scientist for products named Hark Diagnostics, Hark Audit, Hark Score and Hark Alert & reported Technical specs for the one of the project with DB Tables & API'S

Feb'21 – May'21: AI Attendance System in AiOrbitech

Key Result Areas:

- Created Face Recognition system using OneShot Detection and Triplet loss; discovered distances between the embedding of the database image and input image; deployed this algorithm on Raspiberry & Jetsons Nano; worked with sensors, for the House Security System, Gas, Smoke, Thermal Temperature and so on

Jan'21 – Mar'21: Image Similarity in ViHaVe Innovations

Key Result Areas:

- Worked with full stack app for the project; created algorithm with Python and OpenCV to find similar images in the data; compared image with database image in pixel level and used scale invariant feature transformation algorithm to find similarity

Dec'20: PotHole Detection Project (Personal)

Key Result Areas:

- Worked with the detection algorithms in Computer Vision; trained with ResNet. and used faster RCNN to detect boxes in PyTorch and created algorithm with Python and OpenCV to find the similar images

Jun'20 – Aug'20: Full Stack Web App in NameError.ai

Key Result Areas:

- Worked with the Machine Learning Algorithms with medical data; developed a Front-End website with the help of HTML, CSS, Bootstrap and JS; developed Backend with Flask and deployed it on the Heroku for the Prototye

Sep'19 – Oct'19: Action Recognition in Orbit Shifters

Key Result Areas:

- Generated algorithms with CNN, LSTM and FCN written in Keras, Python and OpenCV Action recognition which were used to classify the videos; Data used was with the 3-Dimention

Aug'19 – Sep'19: Speed Objects in Video in Orbit Shifters

Key Result Areas:

- Discovered speed of the 2D objects in Video and generated algorithms using Python & OpenCV
- Gathered the data of the football and labeled the data using labelling tool and generated the distance function using physics and math
- Instructed the YOLOv3 model on the dataset which was labelled and produced the weight files
- Consolidated & then tested everything by using open cv and loading weights of the yolov3

Jul'19 – Aug'19: Angle in Pose Estimation in Orbit Shifters

Angle pose detection algorithms were constructed on the open pose algorithm that exhibits the structure of the human skeleton. It was developed to identify errors made by newbies in the gym. Angles at the elbows and knees were also detected

Key Result Areas:

- Generated algorithm in python; architecture based on open pose algorithm and dataset was the COCO

GitHub Link

- https://github.com/saichandrareddy1