Naga Srimouli Borusu

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Technical Skills

Languages: Python, R, RPGLE, C++

Technologies/Frameworks: Docker, Kafka, Hadoop, Hive, Renaissance, Spark, Pytorch, Tensorflow

Education

Birla Institute of Technology and Sciences, Pilani

Master of Technology in Data Science Engineering, 9.77 SGPA, 8.74 CGPA

2019 - Present Rajasthan, India

Indian School of Business, Hyderabad

Technology Entrepreneurship Program, 96%

2016 - 2018Telangana, India

Osmania University, Hyderabad

Bachelor of Engineering, Electrical and Electronics Engineering, 8.29 CGPA

2014 - 2018

$Telangana,\ India$

Experience

Software Engineer, Development

July 2018 - Present Hyderabad, India

Netcracker Technology

- · Writing scalable, reusable and efficient APIs which could be used for efficient communication between the front end and back end
- Write the design documents for new custom enhancement request based on the specifications provided by the client/business analyst, work on R&D for the need in developing new features to be included in the product.
- Developed utilities for time consuming tasks involved in daily operations, billing which has reduced the data validation time during refund estimations on customer bills by around 28% per bill cycle resulting in saving 4MDs of manual effort involved per month which translates to saving more than 350+ hours yearly saving 100,000 Euros
- Developed models to analyse customer buying patterns which helped in predicting the next best products customer might be willing to purchase and customer attrition rate. This has increased the overall revenue per month by 35%.
- I have become primary point of contact for an entire Commissions module within the first year of joining the team
- An SME for few other critical components of the product viz., Order entry, Billing, Commissions
- Awarded "Start Performer" award for exceptional contributions to the product development

Deep Learning Researcher

August 2021 - Present

Indian Institute of Science

Bangalore, India

- Working under the guidance of Dr. S. N. Omkar, Chief Research Scientist, Computational Intelligence lab Aeronautics Dept., IISc Bangalore
- Developing computer vision algorithms using Generative Adversarial Networks and Probabilistic Graphical models to be used in Super resolution of images

Data science and Marketing Research Intern

June 2015,2016

Indian Institute of Management

Lucknow, India

- Worked under the guidance of Prof. Sameer Mathur. focused on Statistics and Econometrics.
- Analysed business cases published in Harvard Business Review and analysed various strategies statistically
- Developed statistically promising strategies that could increase customer engagement
- Analysed various marketing strategies of fortune 500 companies viz., market selection, market entry and exit etc.
- Developed B-Plans to market FMCG products in newer markets analysing the customer interests and buying patterns

Projects

Chatterbox | Spring, AngularJS, Typescript, MongoDB, Kafka, Docker

- The application allows to communicate with instant messages across communities, individual users
- Developed a full-stack web application using Spring boot serving a REST API with Angular as the frontend
- Used Kafka as message broker to handle the users and conversations. Used MongoDB as a database

Deep fake video generator | Python - Pytorch

- The work is based on implementing the research papers "First order Motion for Image Animation" and "Motion Representations for Articulated Animation"
- Given an input video and static image the algorithm can generate deep fake video of the person in the static image based on the input video
- Reconstruction loss was used as loss function to train the data to achieve acceptable accuracy

Generate Graph Embeddings | Python - networkx

- The work is based on the research papers "Node2vec" and "Multi-Scale Attributed Node Embedding"
- The application was tested on FIFA data set and Karate club data set to identify the embedding of the nodes and identify the similarity between them

Image Captioning | Python - Pytorch, nltk

- The application is designed using pre trained VGG16 network, Resnet50 networks for the encoder and used GRUs for Decoder to generate the image captions
- Flickr 8K dataset was used to perform the task

Bloxorz Game playing Agent | Python

- The levels of the game are configurable and graph algorithms BFS, DFS, A* search are implemented to solve the puzzle
- The automatic game playing agent takes care of the board dimensions, avoids the traps and reaches the end of the level in optimised steps as per the algorithm chosen

Design of Smart grid using Neural Networks | Python, C++

- Intelligent Electrical devices are connected to the electrical appliances in the building and all these IEDs are connected to a central server
- Developed a framework to monitor the electrical usage across all the rooms in the buildings
- Developed deep learning algorithms to optimise the power consumption by switching the loads between the power grid and solar panels

Awards & Achievements

- Awarded "Star Performer" for being in the top 1% workforce out of 200+ team at Netcracker Technology for exceptional contributions to the project
- Won 1st prize at NIT Warangal in 2016, 2nd at IIT Hyderabad in 2017 and received a Merit certificate at IIIT Hyderabad in 2017 for presenting a Paper on "Piezo Electric Energy Production and Harvesting on Ships"
- Won 3rd prize at NIT Warangal in 2015 and received a Merit Certificate from IIIT Hyderabad in 2016 for presenting a paper on "Wireless Power Transmission Using Solar Powered Satellites"
- Best Outgoing Science Student & Best Outgoing Science and Maths Secretary at St. Gabriels H S, WGL for the year 2011-12

Leadership / Extracurricular

- Organiser/Member of Book Club, Python Community, Celebrations Committee team at Netcracker Technology
- Campus Ambassador for Technology Entrepreneurship Program , ISB, Gachibowli, Hyderabad
- Lead Coordinator and VFX designer of THEME BALLET (college dance troop)
- Lead Coordinator for college technical fest ACUMEN 2018
- Editor-In- Chief of Electtrico Rivista (the departmental magazine of EEE) from 2016-2018
- Website and Graphic designer, Co-organiser for the annual college technical fest ACUMEN from 2016-2018

Relevant Coursework

- Deep Learning
- Data Structures and Algorithm design
- Discrete and Non-discrete Mathematics
- Machine Learning
- Artificial Computational Intelligence
- Big data and Stream Processing Analytics
- Statistics and Numerical Methods
- Probabilistic Graphical Models
- Computer Architecture and Operating Systems

Hobbies

Designing using Photoshop & Illustrator - Logo Designing - Reading Blogs - Reading Research Papers - Cooking - Playing Badminton - Reading Books