

SHRIMAN NARAYAN

DATA SCIENTIST

SUMMARY

Data Scientist with Bachelor's in Mathematics and 1.6 years of hands-on experience using Predictive modelling, Machine learning, Deep learning, Computer Vision, NLP models to solve the challenging business problems.

PERSONAL PROFILE

- Achievement driven professional with an experience of 1.6 years in Data Science field.
- Experience in building applications with AI, Statistics, Machine learning, Deep learning, Computer vision, Natural Language Processing, GANs.
- Performing Innovations and designing the Neural networks using TensorFlow & PyTorch for various internal projects within the company.
- Working on Deployment and Optimizations of various AI solutions on cloud platforms like Azure and Heroku, and on Edge devices.
- Involved in conducting Project co-ordination, planning and implementation across the Functional team and interacting with clients.

TECHNICAL SKILLS

- Python programming, Web Scraping, MongoDB, Machine learning and Deep learning
- Computer Vision including Object detection and Tracking, Image Segmentation, GANs
- RNNs, Natural Language Processing, Graph Neural Networks, Docker & Kubernetes
- Cloud platforms → AWS, Heroku, Pivotal cloud foundry, GCP
- Operating system → Ubuntu, Red Hat, OpenSuse, Arch Linux, Windows 10
- Version Control → Git with GitHub, DVC, Bitbucket
- Hardware → NVIDIA Tesla K80 & Tesla V100, Raspberry Pi, Google coral

CURRENT ONGOING PROJECTS

- MegaTron - The smartest chatbot. ..

Project Description

Chatbots are the true modern manifestations of AI and having streamline interactions between people and services, enhancing the customer experiences. A chatbot is useful in providing customer services, presenting product recommendations and engaging customers through targeted marketing campaigns. We are building a chatbot, which will be too smart to train itself and it will be able to handle the complete eco-system and will not need any human interventions. We are exploring various state-of-the-art Transformers based architectures like as GPT, BERT, RoBERTa, ALBERT, DistilBert and others.

- Autonomous Car Prototype

Project Description

Autonomous vehicles (AVs) are gaining popularity around the world. Autonomous car is an automated or autonomous vehicle capable of fulfilling the main transportation capabilities of a traditional car without human input. Autonomous vehicles are capable to reduce crashes, pollution, reduce crashes and costs of congestion.

This would improve the efficiency of people and freight transportation while also increasing security by decreasing human mistake. Several automotive firms, including BMW, Bosch, Toyota, Tesla, and others, have made autonomous car (driverless car) research a priority in recent years. We are exploring Reinforcement learning, IoT and other modules to develop it.

WORK EXPERIENCE

Data Scientist

iNeuron Intelligence PVT LTD | 01 January 2021 - present

- Conduct day-to-day project co-ordination, planning, and implementation across multiple teams.
- Doing Research kind of works and experiments with various state-of-the-art algorithms for giving a solution to a particular problem.

Data Science Intern

iNeuron Intelligence PVT LTD | January 2020 - December 2020

- Managed and monitored the progress of various projects and interacting with clients.
- Develop models for various predictive methods such as forecasting, classification, clustering and regression.



ONLINE PROFILES

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- https://www.youtube.com/channel/UCZSIgl005muOfnhfmxvDi
- linkedin.com/in/student-shrیمان
- Rajpur Khurd Extension, South Delhi, 110068 New Delhi, India

SKILLS SUMMARY

- Machine learning and Deep learning
- Computer Vision and Advanced NLP
- Project management and monitoring
- Docker, Kubernetes, Linux, MLOps
- Team leading and interested in Research based works

EDUCATION

- Bachelor's in Mathematics, 2019
Subject - Mathematics (hons.)
Magadh University, Bodh Gaya
- Machine Learning Masters, 2020
iNeuron Technology, Bangalore
- Deep Learning with Computer vision and Advanced NLP, 2021
iNeuron Technology, Bangalore

RECENT PROJECTS

Document Image Analysis

21 October 2020 - 12 August 2021 | Team size - 26 | Location - Bangalore

• Project Description

To building a Document Image analyzer using OCR and NER, which can be implemented in any industrial use-cases.

• Technologies used in project

Deep learning, Computer Vision, OCR, NER, Layout LM, PICK PyTorch, Easy OCR, Tesseract, Docker, Django, HTML & CSS,

Contributions

- Involved in data gathering with my team for this use-case by taking care of all environmental conditions checking.
- Preparing our data for model training by doing data-preprocessing and annotating them.
- Doing experiments with various state-of-the-art architectures for extracting Textual data out of the Invoices and Bills.
- Training the model in a better way, then tuning parameters for getting a stable and generalized model and validating the trained model locally.
- Involved in installation of Embedded devices for meeting the solution and deployment of model using Django framework.

Highlights

- Recognised by managers, colleagues and peers for Innovation, communication and Teamwork to ensure quality, Timely project completion.

Hands -detection System

25 May 2020 - 07 September 2020 | Team size - 18 | Location - Bangalore

• Project Description

To build a vision-based solution for a waste shredding plant to save worker's hand in a shredder machine.

• Technologies used in project

Deep learning algorithms, Computer vision, ROS and Socket programming, Raspberry Pi, Nvidia Tesla V100, Docker, Tensorflow, PyTorch

Contributions

- Involved in data gathering with my team for this use-case by taking care of all environmental conditions checking.
- Preparing our data for model training by doing data-augmentation and labelling them.
- Doing experiments with various state-of-the-art detection algorithms for getting a best model for our use-case.
- Training the model in a better way, then tuning parameters for getting a stable and generalized model and validating the trained model locally.
- Involved in installation of Embedded devices for meeting the solution and deployment of model at client's location.

Highlights

- Recognised by managers, colleagues and peers for Innovation, communication and Teamwork to ensure quality, Timely project completion.

Back Order Prediction System

25 Dec 2019 - 12 May 2020 | Team size - 25 | Location - Bangalore

• Project Description

To build a model which will be able to predict whether an order for a given product can go on backorder or not. A backorder is the order which could not be fulfilled by the company due to high demand of a product, the company was not able to keep up with the delivery of the order.

- Deployment link - <https://backorder-prediction-system.herokuapp.com/>

• Technologies used in project

Machine learning algorithms, Scikit learn, ANN, Flask, Docker, MongoDB, Heroku, Numpy, Pandas etc.

Contribution

- Involved in requirement gathering with various clients for various use-cases and feasibility check for all the requirements with timeline.
- Working closely with business and engineering teams to encourage statistical best practices with respect to experimental design, data capture and data analysis.
- working in collaboration with Product managers to understand the challenge towards a product development and provide a solution with ML and AI Techniques.
- Participating in data preprocessing techniques in order to make data useful for creating Machine learning models.
- Building baseline models for the requirements with necessary data preparation and Parameter tuning process for optimal model hyper-parameters.

Highlights

- Recognised by managers, colleagues and peers for Innovation, communication and Teamwork to ensure quality, Timely project completion.

EDUCATIONAL HISTORY

Bachelor's in Mathematics

Magadh University, Bodh Gaya | May 2015 - March 2019

- Subjects - Mathematics (Major), Physics, Chemistry
- Percentage of Marks - 68 %

Machine Learning Masters

iNeuron Intelligence, Bangalore | Sep 2020

- Python programming, Statistics, EDA
- Machine learning, MLOps, Cloud

Deep learning with Computer Vision and Advanced NLP

iNeuron Intelligence, Bangalore | June 2021

- Deep learning, Computer vision, NLP
- Calculus and Linear algebra