Charchit Dhawan

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Career Objective

To pursue a challenging career and be a part of progressive organization that gives a scope to enhance my knowledge and utilizing my skills towards the growth of the organization, and enthusiast the opportunity to do better.

Education

2017-2021 Bachelors in Technology, **Dr.SPM IIIT-Naya Raipur**, Chhattisgarh,India
Major: **Computer Science and Engineering(Currently in VII-SEM)**

Work Experience

May- July 2020 | **Summer AI Research Intern(Work From Home)** at
University of Malaya, Malaysia.
Topic: COVID-19 Research and analysis.

JUNE-2020(Present) | **Freelance NLP Developer** at
Singapore University of Technology and Design [SUTD], Singapore.
Developing NLP and deep learning models for text Analysis and classification project. (Publishing work)

Dec 2018 | **Machine Learning Intern** at
ExpertsHub pvt ltd.
Work on real-time problems as a project under the guidance of experience ML/AI developers and entrepreneurs, manage the team of 11 with inspiring and motivate the confidence to develop the project into a product to innovate business ideas and explore in terms of industry ready personality. [GitHub]

JAN-JUN 2017 | **Website Designer and Coordinator** at
RoboticsTrade Pvt ltd.
At this post i designed a whole e-commercial website for a new startup **Roboticstrade.com** by which it helps them to save Money in thousands and being a coordinator I manage the website,its update and its transactions. [GitHub]

Technical Skills

Languages/frameworks: Python, R, C++, SQL, Django-Dev, Latex, MATLAB, Tableau(bigner).
Working Fields: NLP, ML, Deep Learning, Data Science, Reinforcement Learning.

Publications

- Conference paper-VTC2020-Spring Conference in Antwerp, Belgium. [Status-Published]
  Title: Path Loss Prediction in Smart Campus Environment: ML-based Approaches.

Projects Experience

JULY 2018

Patient-Fall detection system using Rpi-3

An IOT based system by which patient fall can be detected and send the notification to their caretaker or representatives, that improve the medical facilities more efficiently. [GitHub]

Nov 2018

Video Surveillance using Motion Detection on MATLAB

Security based project in which camera detect the motion in the dark-room where lights are low such as control rooms and restricted to enter, this system captures the motion and refine the image in the dark and help us to see the image more clear to find the person who entered. [GitHub]

JAN-APR 2019

Research based Image Scene-Graph generation using Ontology

Understanding a visual scene goes beyond recognizing individual objects in isolation. Relationships between objects also constitute rich semantic information about the scene. In this work, we explicitly model the objects and their relationships using scene graphs. A scene graph is a structured representation of an image, where nodes in a scene graph correspond to object bounding boxes with their object categories, and edges correspond to their pairwise relationships between objects. [GitHub]

Jan - April 2020

Super Resolution of a Single Image using Generative Adversarial Network(GANs)

In this great era of machine learning and artificial intelligence there are many solutions made for single image super-resolution using faster and deeper convolutional neural networks, but one central problem remains largely unsolved: how do we recover the finer texture details when we super-resolve at large upscaling factors? the behavior of optimization-based super-resolution methods is principally driven. Basically, recent works are focused on minimizing the mean squared reconstruction error. [GitHub]

Jan-Jun 2020

Multi-Agent Deep Reinforcement Learning for Liquidation Strategy Analysis

Modeling an auction as a multi-layer neural network and framing optimal auction design as a constrained learning problem.The main challenge in optimizing liquidation is to find an appropriate modeling system that can incorporate the complexities of the stock market and generate practical trading strategies. [GitHub]

Jan-Jun 2020

Covid-19 Predictive-Analysis and Live Tracker

World wide analysis and India's Predictive- Analysis and Tracker, which track the live confirmed cases , active and deaths and give the graphical representation of the Corona Virus scenario over the period. [GitHub]

Positions of Responsibility

- Student Coordinator of Training and Placement cell at IIIT-NR
- Team-Leader @ ML-AI Winter-2018 and managed to won competition with team of 11.

Accomplishment

- Certificate of Excellency: Best Team award ML-AI Winter,Pune-2018
- Secured 3rd position in Hultz-Prize 2017 at college level

References

Dr. Srinivas Naik N
Assistant Professor, CSE, IIIT Naya Raipur.
Research Field: Big Data, Machine Learning.

Dr. Muneendra Ojha
Assistance Professor, CSE, IIIT Naya Raipur.
Research Field: ML, AI, Multi-Agent System.