ROHAN SAI NALLA

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EDUCATION

UNIVERSITY OF COLORADO BOULDER — Boulder, Colorado
Master of Science in Data Science, CGPA: 3.8/4 — 2022 - 2024
Coursework: Statistical Methods and Applications, Data Mining, Machine Learning, Data Science as a Field.

GITAM INSTITUTE OF TECHNOLOGY — Visakhapatnam, India
Bachelor of Technology (B.Tech), Computer Science and Engineering, CGPA: 8.77/10 — 2018-2022
Coursework: Data Structures, Discrete Mathematics, Database and Analysis of Algorithms, Machine Learning, Data Mining, Data Warehousing, Operating Systems.

INTERNSHIP

Graduate Research Assistant — Boulder, Colorado
Department of Psychology and Neuroscience, ***Supervisor - Dr. Lei Yuan***
- Technology and Data backbone at the Laboratory.
- Designed and Developed cognitive Stimulus and Response experimentation in Psychopy integrated with Eyelink 1000
- Conceptualized an automation methodology using Deep Learning to collect data.

Phoenix Global Pvt Ltd — Hyderabad, India
Machine Learning Engineer Intern — Jun, 21 – Sept, 21
Project – Prognostic Classification of Patients with Hepatocellular Carcinoma
- Gained knowledge of Machine Learning principles and Industrial standard Data Science process Model, CRISP-DM.
- Developed a robust pipeline in KNIME with several Machine Learning approaches to classify the data.

TECHNICAL PAPERS

Comparative Study of Reliability of Transfer Learning to Classify Plant-Based Diseases — View Publication
International Journal of Engineering and Advanced Technology (IJEAT) – Volume-10 Issue-6
- Analyzed various pre-trained Neural Network Architectures to classify visual representations of plant-based diseases.
- The purpose of this study was to offer a methodology for assessing crop conditions utilizing sophisticated systems to detect disease signs and intervene early.

Deep Categorization of Blood Cells Using Depth-wise Convolutions — View Publication
International Journal of Innovative Technology and Exploring Engineering (IJITEE) – Volume-10 Issue-12
- Proposed a robust system that can precisely classify white blood cells based on their morphological differences.
- This research aims at alleviating the stringent requirement of manual cytological studies by supplanting them with intelligent systems.

PERSONAL & ACADEMIC PROJECTS

COVID-19 Analysis and Prognosis Based on Pre-Conditions
- Developed an Interactive Dashboard with real-time analytics of COVID-19.
- Incorporated the Statistics of Global Vaccine Administrations and Quantified Vaccine Efficacies.
- Fabricated a Neural Network to Predict the Likelihood of requiring either Intubation or an Intensive Care Unit.

Global Temperature Variation Analysis and Modeling
- Led a team of 3 to conduct a detailed analysis of Average Temperatures of geographically diverse regions.
- Modeled the data to forecast temperatures in both quantified and time series formats using Facebook's Prophet Algorithm.
- Deployed a dashboard to host all the analytical information along with the Prophet Functionality.

The Anatomy of Deep Learning
- Designed a web application to maintain records of various Deep Learning experiments.
- Orchestrated the web page to Illustrate complexities of Deep Learning concepts in a visual way.
- Integrated a sandbox section to experiment with the trained models.

The Formula 1 Web Paddock
- Developed a web application that holds real-time analytics of Formula 1 Races
- Integrated a streamline use of the API to showcase analytics as soon as the data is available.
- Invented two perspectives into the dashboard to show analytics for potential Investors in the Sport and for the Fans.

EXTRACURRICULAR

Start it Up — *Author* — Blog Page
- Start it Up is the most influential publication on Medium, with over 700,000 followers.
- Authored technical blogs related to the field of Machine Learning to interpret contemporary predicaments such as Covid-19.

SKILLS

Programming Skills: Python, C, C++, R, Java, Bash, HTML, CSS,
Data Science and Machine Learning: PyTorch, Tensorflow, Keras, Pandas, Numpy, Scikit-learn, Open CV, SQL
Tools & Utility: VS Code, KNIME, Notion, LaTex, Adobe Photoshop, Quarto, RMarkdown, API
Disciplinary Skills: Time Management, Multitasking
Languages: English, Telugu, Hindi

INTERESTS

- Astrophotography
- Reading