Chiranjeevi Nalapalu

Data Scientist

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SUMMARY

Result-driven data scientist with a strong foundation in extracting actionable insights from complex data and driving business decisions. 4 +years of experience in data analytics in Python, MATLAB, and R. Proficient in analyzing extensive datasets employing data science methodologies and visualization techniques. Approach challenges with a systematic approach, thereby delivering innovative solutions.

TECHNICAL SKILLS

Programming Languages: Python, SQL, MATLAB, R
Libraries/Frameworks: NumPy, SciPy, Matplotlib, Plotly, Pandas, Scikit-learn, TensorFlow, NLTK
Data Science: Regression models, Ensemble methods, Clustering, Deep Learning, NLP
Tools: Git, Tableau, Power BI, Excel
Languages: English (Professional working proficiency) Hindi (Native)

WORK EXPERIENCE

Alfred Wegener Institute   Potsdam, Germany
Ph.D. Researcher in Climate Physics   2021 - Present

- Developed a Lagrangian Climate model where I simulated 1000s of air parcel trajectories to determine the sources of global sulfur emissions and improve model predictions by 20%.
- Processed and analyzed large datasets (100+ GB) via parallelization on HPC clusters, integrating data from heterogeneous sources and file formats.
- Utilized various visualization libraries to create compelling visualizations for presentations at 5 national and international conferences with 200+ attendees.
- Employed clean coding practices, including code refactoring, debugging complex codebases, and leveraging version control systems.

Indian Institute of Science Education and Research, Tirupati   Tirupati, India
Masters Researcher in Climate Physics   2019 - 2020

- Performed a thorough analysis of 16 years of NASA satellite data utilizing MATLAB and Python to improve monsoon rainfall predictions over the Indian subcontinent.
- Streamlined data ingestion and developed efficient algorithms to expedite data analysis, which cut processing time by 40%.

CERTIFICATES

Advanced Data Science with IBM Specialization   2024
IBM Data Science Certificate   2024

EDUCATION

University Of Potsdam   Potsdam, Germany
Ph.D. in Physics   2021 - Present

Indian Institute of Science Education and Research, Tirupati   Tirupati, India
BS-MS in Physics   2015 - 2020

AWARDS

KVPY SCHOLARSHIP: A national science scholarship awarded to exceptional students (Top 1%) in basic sciences funded by the Department of Science and Technology, India (≈ €5000).