Mulugu Vishwanath Sharma

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Education

Indian Institute of Technology Hyderabad, India — Nov 2020 - Present
Bachelors of Technology in Mathematics and Computing — CGPA: 8.36/10.0

Sri Chaitanya Junior College,India — June 2018 - April 2020
Higher Secondary Education TSIBE — Percentage: 94.2 %

Sri Chaitanya School,India — 2018
Secondary Education TSIBE — GCPA: 9.3/10.0

Experience

Jio platforms Software development - AI/ML, Internship — May 2023 - July 2023 — Hyderabad, India

- Successfully developed an Android application incorporating advanced functionalities such as speech recognition, deploying supervised ML classification models and PyTorch models in Android, and implementing multi-threaded optimisations.
- Collaborated with a team of developers and designers to ensure seamless integration of the application's functionalities and an intuitive user experience.

Projects

3D Object Reconstruction Course work Github — Jan 2023 - Apr 2023

- Contributed to the development of a Neural Network Model aimed at reconstructing 3D objects using a single image.
- My primary focus was on developing the algorithm responsible for generating a 3D view from a set of 2D views and generating 2D image view of 3D object from different perspectives

Recommendation Systems Course work Github — Jan 2023 - Apr 2023

- Developed a movie recommendation algorithm using Numerical Linear Algebraic Methods on data from IMDB, Rotten Tomatoes, etc. And analyzed movie ratings to identify patterns and generating personalized recommendations.
- Collaborated, tested, and documented the algorithm for accuracy and future enhancements.

Financial Health Analysis Research project Github — Jan 2023 - Apr 2023

- Performed an analysis of the financial health of banks in India, utilizing statistical and machine learning methods.
- Data was scraped from various websites, and predictive models were built to forecast the future performance.
- The models achieved an accuracy rate exceeding 80% on test data, showcasing the effectiveness of the statistical and machine-learning approaches employed.

Robust Hybrid of Lasso and Ridge Regression Course work Github — Jan 2022 - Apr 2022

- Was part of a team that worked on implementing the Huber Loss function and Behru penalty function. Worked on mathematical proofs and reasoning to justify the effectiveness and applicability of these new loss and penalty functions.

Achievements

Code-Forces	Reached a mile stone of max rating 1390 in Code-Forces in 2 months	2023
JEE	Secured an AIR of 622 in Mains and 848 in Advanced in General category	2020
TS-Eamcet	Qualified in TS-Eamcet with a State rank of 115 in General category	2020

Technical Skills

Programming Languages: C, C++, Python, Java & XML (Android studio), Markdown, Latex, MySql.
Software: Visual Studios, Visual Studio Code, R Studio, Android Studio, GitHub, Azure DevOps, Azure Cognitive Services(API Services) numpy, pandas, TensorFlow, PyTorch, Spacy etc.. . **OS:** Linux and Windows
Data Analysis: Data analysis using various Statistical (Predictive, Prescriptive, Descriptive, and Inferential) and Machine Learning(Supervised and Unsupervised) methods.
Problem-Solving: Can solve Medium-Hard Level problems in Leet code and can solve up to 1700 rated in Code-Forces.
Areas of Interest: Further mastery in Statistical-analysis and developing skills in ML methods and DL

Relevant Coursework

Computer Science: Python(Core+Advanced), DSA, DSA-lab, OS-1, DBMS-1, Compilers-1, Theory of Computation, Algorithms
Artificial Intelligence: Machine Learning, Deep Learning, Convex Optimisation, IoT(Bolt).
Applied Mathematics: Numerical Linear Algebra, Image and Video Processing, Probability in Computing, Linear Regression and Multivariate Analysis, Bayesian Statistics, Applied Statistics.
Pure Mathematics: Calculus, Linear Algebra, Number Theory, Differential Equations, Combinatorics, and Probability Theory.
Others: Iot and ML course provided by Bolt, Spoken Japanese Course

Extra Curricular Activities

Playing in-door games like Chess and Carroms at hostel level tournaments.