Mulugu Vishwanath Sharma

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EDUCATION

Sri Chaitanya Junior College,India　　　　　　　　　　　　　　　　　　June 2018 - April 2020
12th grade TSIBE　　　　　　　　　　　　　　　　　　　　　　　　　　　　　GPA: 942/1000

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

EXPERIENCE

Jio platforms Software development - AI/ML, Internship　　　　May 2022 - Aug 2022　　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

Recommendation Systems Course work　　　　　　　　　　　　　　　　　　Jan 2023 - Apr 2023
Developed a movie recommendation algorithm using Numerical Linear Algebraic Methods on data from IMDB, Rotten Tomatoes, etc. Analyzed movie ratings to identify patterns and relationships, generating personalized recommendations. Collaborated, tested, and documented the algorithm for accuracy and future enhancements.

Financial Health Analysis Research project　　　　　　　　　　　　　　　Jan 2023 - Apr 2023
Performed an analysis of the financial health of multiple 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 of these banks. The models achieved an accuracy rate exceeding 80% on test data, showcasing the effectiveness of the statistical and machine-learning approaches employed.

3D Object Reconstruction Course work　　　　　　　　　　　　　　　　　Jan 2023 - Apr 2023
Contributed to the development of a Neural Network Model aimed at reconstructing 3D objects using a single user 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

Robust Hybrid of Lasso and Ridge Regression Course work　　　　　　　　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

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

TECHNICAL SKILLS

Programming Languages: C, C++, Python(Numpy, Pandas, PyTorch, TensorFlow, etc.), Java(Android Development), XML(Android Development), Matlab, R, Markdown, Latex, MySql.
Software: Visual Studios, Visual Studio Code, R Studio, Android Studio, GitHub, Azure DevOps, Azure Cognitive Services(API Services). **OS:** Linux and Windows
Data Analysis: Data analysis using various Statistical (Predictive Analysis, Prescriptive Analysis, Descriptive Analysis, and Inferential Analysis) and Machine Learning Methods(Supervised and Unsupervised).
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) From Naresh IT (Outside Campus), DSA, DSA- lab, OS - 1, DBMS-1, Compilers - 1, Theory of Computation, Algorithms
Artificial Intelligence: Machine Learning, Deep Learning, NLP(Spacy and NLTK), Convex Optimisation, IoT(Bolt).
Applied Mathematics: Numerical Linear Algebra, Image and Video Processing, Probability in Computing, Linear Regression and Multivariate Analysis, Bayesian Statistics
Pure Mathematics: Calculus, Linear Algebra, Number Theory, Differential Equations, Groups and Rings, Diophantine Equations, Applied Statistics, Combinatorics, Real Analysis, 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.