Nagesh N

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Career Objective

Motivated and Enthusiastic Student with a background in Physical and formal science with a passion for AI, Data Science and ML, having keen interest in applying my knowledge on Data Analysis, Model Building, Fine-tuning and problem-solving in a practical setting.

Technical Stack

- Programming languages: Python, R, C, HTML.
- Libraries: NumPy, Pandas, Matplotlib, Scikit-learn, Tensorflow, Keras.
- Cloud Platforms: Google GCP, Microsoft Azure.
- Query Languages: SQL, NOSQL, Cypher.
- Database: PostgreSQL, MongoDB.
- Data Analytics: Tableau, Power BI.
- Platforms: VSCode, Jupyter Notebook, Docker, Git and GitHub.

Education

Reva University, M.Sc. in Data Science 2023 – 2025

- SGPA: **9.59**/10.0

The National Degree College, B.Sc. in Physics, Mathematics and Electronics 2020 – 2023

- CGPA: **9.27**/10.0

Projects

Reliance Stock Prediction RepoLink

- Built a set of Statistical, Machine learning and Deep Learning models for the Prediction of the Close Price of Reliance Stock for the next 30 days.
- Tools used: Python, statsmodels, tensorflow, sci-kitlearn.

ATS Resume Enhancer RepoLink

- Developed an LLM-powered assistant to provide resume suggestions based on job descriptions. Integrated Google's free API and utilized Gemini as the core LLM.
- Tools used: Python, streamlit, google-generativeai.

Scientific Machine Learning Hackathon RepoLink

- Designed a Physics-Informed Neural Network (PINN) to solve the convection-diffusion partial differential equation.Implemented generalization techniques and hyperparameter tuning to optimize model performance.
- Tools used: Python, tensorflow.

IEEE Data port Hackathon: Bangalore Mobility Challenge RepoLink

- Collaborated with team members for object detection and tracking in video clips to predict vehicle counts for various classes of vehicles. Used YOLO models for object detection and OpenCV (cv2) for tracking.
- Tools used: Python, YOLO, Roboflow, ARIMA.

Kaggle Competition: Regression with Abalone Dataset RepoLink

- Built a regression model using the LightGBM (LGBM) Regressor for predictive analysis. Pre-processed data with log transformation and scaling, significantly improving model accuracy.
- Tools used: Python, MinMaxScaler, and LGBMRegressor.