SURYA RUIDAS

M.Sc. in Big Data Analytics
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PROJECTS

- **Stock Price Prediction:** Google Stock Price Prediction - A Regression Task

  Sep 2024 - Nov 2024

  - **Tools:** NumPy, Pandas, Matplotlib, scikit-learn
  - **EDA:** Feature Space Dimension Checking ,Nan-value Checking, Data Description, Multicollinearity Checking, Z-Score Normalization.
  - **Models:** Multiple Linear Regression , Regularized version of Linear Regression like ridge , Lasso and Elastic-Net.
  - **Optimization Algorithms:** BGD , MBGD , SGD (Through Class defining and creating object)

- **Diabetes Prediction:** Diabetes prediction - A Classification Task

  Sep 2024 - Nov 2024

  - **Tools:** NumPy, Pandas, Matplotlib,seaborn, scikit-learn
  - **EDA:** Nan-value Checking, Data Description, Class-Counts, Feature Space Dimension Checking ,Z-Score Normalization (Before PCA Projection), Visualization of data through Pie-Chart and Bar-Chart, Visualization of overlapping of the classes through PCA projected data in 2D and 3D.
  - **Models:** SVM(With different kernels) With Confusion matrix , AUC-ROC curve , Decision Tree , Random Forest(Bagging) , KNN , Voting.

- **Brain Tumor Detection:** Brain Tumor Detection Using DL Model

  Jan 2025 - May 2025

  - **Tools:** NumPy, Pandas, Matplotlib,seaborn, scikit-learn,PyTorch
  - **EDA:** Visualizing The data (Images) , Class distribution through pie-chart and bar-chart.
  - **Models:** Devoloped a Custom CNN model and evaluated with Confusion Matrix , AUC-ROC curve , Precision , recall , Support. Implemented Transfer learning , finetuning the pre-trained model ResNet18,and compared the devoloped custom model(CNN) with the pre-trained ResNet18 model.

- **FaceRead**: Facial Emotion Detection Using CNN

  Jan 2025 - May 2025

  - **Tools:** NumPy, Pandas, Matplotlib,seaborn, scikit-learn,PyTorch
  - **EDA:** Class Counts , Class Distribution Through pic-chart and bar-chart.
  - **Model:** Developed a custom CNN model .

COURSEWORK

- Python Programming
- Data Structures and Algorithms
- Probability and Stochastic Process
- Statistics
- Time Series Analysis
- Linear Algebra
- Machine Learning
- Deep Learning and NLP
- Computer Vision

ACHIVEMENTS

- Qualified **GATE Data Science & AI (2025)**
- **Top 1%** in NPTEL, Joy of Computing with Python **(Score : 99/100)**
- NMMSE Scholaraship-Awarded forqualifying the NMMSE 2015

EDUCATION

- **Ramakrishna Mission Vivekananda Educational and Research Institute, Howrah**

  M.Sc. in Big Data Analytics

  2024 – Present (Till Sem-1) CGPA: 6.87

- **Ramakrishna Mission Residential College (Autonomous), Narendrapur, Kolkata**

  B.Sc.(H) in Mathematics

  2021 – 2024 CGPA: 8.27

- **Jamalpur High School**

  Higher Secondary (10+2) | PCMB

  2018 – 2020 Score: 95.20%

- **Sonargoria Vivekananda Vidyamandir**

  Secondary (10)

  2012 – 2018 Score: 91.29%

TECHNICAL SKILLS

- **Programming Languages:**Python, C, SQL, LaTeX
- **Libraries & Frameworks:** NumPy, Pandas, Seaborn, Matplotlib, scikit-learn, Pytorch, OpenCV
- **Tools:**Git/Github, Oracle Database, MySQL Database, MS Office
- **Operating System:**Windows, Linux (Ubuntu)

ACTIVITY

- Core Committee Member **Perceptron 2025** Auction Group at **RKMVERI**
- Core Organizing Team Member **Infinity 2024** at RKMRC

HOBBY

- Reading Books , Watching Movies , Playing Cricket