

SURYA RUIDAS

M.Sc. in Big Data Analytics

Ramakrishna Mission Vivekananda Educational and Research Institute, Belur Math, West Bengal, India

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Surya-1109

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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:** Developed 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 developed 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 pie-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

ACHIEVEMENTS

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