

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

- **Supply Chain Demand Forecasting:** Supply Chain Demand Forecasting using Machine Learning and Deep Learning (Ongoing)
August 2025 – Present
 - **Tools:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, Tensor-Flow/Keras
 - **EDA:** Missing-value checking, data description, class counts, feature-space analysis, visualization of sales trends, inventory distribution, and replenishment patterns using bar charts and line plots
 - **Models:**
 - Machine Learning: Linear Regression, XGBoost
 - Deep Learning: CNN, LSTM, CNN+LSTM, GRU, Transformers
- **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
- DSA using Python
- DBMS
- Linear Algebra
- Probability & Stochastic Process
- Statistics I
- Advanced Statistical Methods
- Time Series Analysis
- Multivariate Statistics
- Econometrics and Finance
- Machine Learning
- Deep Learning and NLP

EDUCATION

- Ramakrishna Mission Vivekananda Educational and Research Institute
Belur Math, 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)

ACHIEVEMENTS

- 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

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