UBHASIS BISWAS

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Education

M.Tech in Computational and Data Science

Indian Institute of Science, Bangalore CGPA: 8.40/10 2020 - 2022

M.Sc. in (Pure) Mathematics

Ramakrishna Mission Vivekananda Educational and Research Institute, West Bengal CGPA: 8.40/10 2017 - 2020B.Sc. in Mathematics

CGPA: 8.48/10 Durgapur Government College, West Bengal

Higher Secondary Education

2015-2017 Bidhan Chandra Institution, Durgapur Percentage: 86.8 %

Secondary Education

2010-2015 Durgapur Vidyasagar Model High School Percentage: 90.29 %

Projects

Adaptive CNN Gesture Recognition: Real-Time Capture and Model Integration

Jan 2024

2023 - 2025

- Engineered a robust Gesture Recognition System, achieving a 98% accuracy on test data, using Python, OpenCV, Keras and TensorFlow with a CNN model.
- Developed an interactive console interface for real-time Gesture Capture via webcam.
- Demonstrated proficiency in Image Processing, User Input Handling, and efficient data management with organized storage using log files and session IDs for training data.
- Gained hands-on experience in utilizing Git Version Control, maintaining GitHub Repository , and learned the process of releasing **pip installable projects** on PyPI **C** (on Linux OS only).

Unveiling Patterns in Shopping Behavior

Jan 2024

• Conducted EDA on the "Consumer Behavior and Shopping Habits Dataset", employing PCA, Unsupervised and Supervised Learning Algorithms to find insights into the purchasing habits of customers.

Coding a feed-forward neural network from scratch

Dec 2023

• Created a Feed-Forward Neural Network for the MNIST dataset, emphasizing skills in neural network architecture, forward propagation, and backpropagation, achieving 96% accuracy.

Technical Skills

Programming Language(s): Python (Experienced), C++ (Beginner), R (Beginner)

Tools: Numpy, Pandas, Matplotlib, TensorFlow, Keras, Sci-kit Learn, OpenCV, PIL, IATEX, MS Office, BeautifulSoup Technical: Machine Learning, Image Processing, Optimization, Deep Learning

Additional Familiarities (Beginner Level): Linux (Ubuntu), AWS, Wolfram Mathematica, Python Scripting for Automation, Web-scraping, Git, GitHub

Coursework (* for ongoing)

- Numerical Linear Algebra (A+)
- Stochastic Modelling (A)
- Numerical Methods (A+)

- Introduction to NLP*
- Machine Learning*

• Deep Learning for CV*

Relevant Assignments and Classworks

- Image Compression using Singular Value Decomposition
- Programming Assignments in Numerical Methods

Root finding Methods, Polynomial Interpolations, Solution to Initial Value Problems in Differential Equations

• Linear and Logistic Regression from scratch

Implemented Linear and Logistic Regression from scratch and applied gradient descent and various techniques. Performed visual analysis of the outcome

Academic Accomplishments

- Secured AIR 2 in GATE MA 2023
- Awarded Swami Vivekananda Merit-Cum-Means Scholarship during postgraduate study.
- Secured AIR 461 in IIT JAM 2020