Anupriya Biswas

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Education

St. Xavier's Institution **Aug. 2003 – July 2019**
Higher Secondary *Kolkata, West-Bengal*

RCC Institute of Information Technology **Aug. 2017 – July 2023**
Bachelor of Science in Computer Science & Engineering *Kolkata, West-Bengal*

National Institute of Technology, Rourkela **Aug. 2024 – Present**
Master of Science in Computer Science & Engineering *Rourkela, Odisha*

Relevant Coursework

- Data Structures
- Algorithm Design
- Software Engineering
- Computer Architecture
- Database Management Systems
- Applied Data Science
- Machine Learning
- Applied Deep Learning
- Artificial Intelligence
- Blockchain & Cryptocurrency
- Operating Systems
- Theory of Computation
- Compiler Design
- Discrete Mathematics
- Quantum Computing

Experience

Wisdmlabs **Dec 2023 – Mar 2024**
PHP Full-Stack Developer Intern *Mumbai, Maharashtra*

- Developed and customized WordPress plugins to enhance client-specific functionality.
- Worked on both front-end and back-end tasks using JavaScript, HTML, and CSS. Gained hands-on experience with WordPress architecture, hooks, and plugin lifecycle.
- Collaborated with senior developers in an Agile environment to deliver timely updates and feature rollouts.

Projects

Flat-File System | *Python, Numpy, Pandas, File-Handling* **January 2019**

- Designed and developed a flat-file data management system as a lightweight alternative to traditional DBMS for small-scale and personal data use.
- Enabled support for multiple file formats including Excel, MP3 metadata, SQL dumps, and direct user input.
- Utilized Python libraries (NumPy, Pandas) to process, manage, and analyze stored data efficiently.
- Demonstrated the practical utility of file-based data handling for projects with limited complexity or scale.

Prescription Digitization Software Package | *Flutter, Python, ResNet, Deep Learning* **August 2023**

- Developed a cross-platform application to digitize handwritten medical prescriptions using deep learning-based handwriting recognition.
- Implemented a ResNet-based OCR model to extract structured medication data from scanned or photographed prescriptions.
- Built an intuitive Flutter interface allowing doctors to upload images and view the digitized output with editable fields.
- Enhanced healthcare record-keeping by converting analog prescriptions into structured digital text for integration with EHR systems.

Musical Academy Website | *Next.js, React, Tailwind CSS* **March 2023**

- Developed a fully responsive and SEO-friendly website for a musical academy using the Next.js framework.
- Implemented dynamic routing and server-side rendering to enhance performance and user experience.
- Built interactive components for courses, instructor profiles, and registration forms using React and Tailwind CSS.
- Optimized for mobile, tablet, and desktop devices with fast load times and clean UI/UX design.

Technical Skills

Programming Languages: Python, Java, C/C++, HTML/CSS, SQL
Developer Tools & IDEs: Git, GitHub, VS Code, Sublime Text, Android Studio, Jupyter Notebook, WordPress
Libraries & Frameworks: TensorFlow, PyTorch, Keras, NumPy, Pandas, Scikit-learn, OpenCV, Matplotlib, React, Bootstrap, Node.js
Concepts & Paradigms: Object-Oriented Programming (OOP), Data Structures and Algorithms
Database & Backend Technologies: MySQL, MongoDB, REST APIs
Operating Systems: Linux (Ubuntu), Windows, Android

Research Projects

Stock Market Trend Prediction **May 2022 – July 2023**
Research Project *MAKAUT*

- Built LSTM and GRU-based deep learning models to predict stock price movement based on historical data.
- Performed feature engineering using technical indicators like RSI, MACD, Bollinger Bands, and moving averages.
- Achieved over 72% directional accuracy using multi-feature time series data and backtesting strategies.

Efficient Sensor-Based Human Activity Recognition on Edge Devices **Jan 2024 – Present**
Research Project (Manuscript Under Review – IEEE Sensors Journal) *NIT Rourkela*

- Proposed a multimodal deep learning architecture using 2D-CNN and 3D-CNN streams for RGB and voxelized point cloud data.
- Designed the Cross-Adaptive Scaled Dot-Product Attention (CASDPA) mechanism for dynamic cross-modal feature fusion.
- Achieved 98.15% accuracy with real-time inference on Jetson Orin Nano using a custom dataset of 14,000 labeled samples.