Prayas Mazumder

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Experience

Analyst - Software Developer **Willis Towers Watson (WTW) | June 2025 – Present**

- **Tech Stack:** *C#, ASP.NET, MS SQL, Microsoft Azure*
- Worked on insurance funding solutions for US-based clients.
- Optimized funding calculation workflows, reducing Azure upload time by **12%**.
- Resolved migration issues during the transition from *Confluence* to *SharePoint*.

Research Intern **IIT Kharagpur | May 2024 – September 2024**

- **Tech Stack:** *Python, PyTorch, NLTK, spaCy, Pandas, NumPy, Scikit-learn*
- Researched NLP techniques and Large Language Models (LLMs) for data summarization and insight extraction.
- Implemented Seq2Seq models with attention and variational inference for template-based text generation.
- Improved model accuracy from **63%** → **68%** on the SPNLG dataset (180K+ samples) via hyperparameter tuning.

Summer Intern **IIEST Shibpur | May 2024 – August 2024**

- **Tech Stack:** *JavaScript, Python, Flask, ReactJS, Express, MongoDB*
- Developed a full-stack MERN-based video streaming application (**JPS Streaming**) with RBAC and MVC architecture.
- Implemented secure authentication using **JWT** and **bcrypt** encryption.
- Developed a hybrid recommender system achieving **80%** accuracy, comparable to industry-standard recommendation engines.

Education

Indian Institute Of Engineering Science and Technology (IIEST), Shibpur 2021 – 2025
B.Tech (Computer Science and Technology) with a CGPA of **8.79/10**

Projects

Ransom-Check: *Detects Ransomware in Android APKs* | <u>GitHub</u> | <u>Live</u> | *Python, TensorFlow, JavaScript, Flask*

- Developed a novel pipeline that converts Android APKs from 20+ ransomware families into RGB images using static analysis (permissions, opcodes, services) mapped into visual feature channels.
- Designed and trained a Convolutional Neural Network (CNN) achieving an **F1 score of 85.31%**, validated with k-fold cross-validation and 90,000+ hyperparameter search combinations.
- Built a full-stack web platform with Flask backend for APK decompilation and model inference, enabling batch uploads, confidence score visualization, and achieving an overall **86% model accuracy**.

Skills

- **Programming Languages:** C++, C , Python, C#, JavaScript
- **Web Development:** HTML, CSS, MERN(ReactJS, NodeJS, ExpressJS), Flask, ASP.NET
- **ML libraries:** NumPy, Pandas, OpenCV, TensorFlow, PyTorch, Scikit-learn
- **Database and Utilities:** MySQL, MS SQL Server, MongoDB, AWS, MS Azure, GitHub
- **Soft Skills:** Collaboration, Problem-Solving, Attention to detail, Time Management

Achievements

- Solved around **1200+ DSA questions** on coding platforms like LeetCode , Codechef , CSES , GeekForGeeks .
- **Competitive Programming Ratings:**

  LeetCode : Max Rating 2024, among top **3%** globally, earned **'Knight'** badge

  CodeChef : Max Rating 3 Star (1789)

  CodeForces : Max Rating 1390 (**Pupil**)
- Secured 3rd place in **COMSYS Hackathon** by IIT Mandi, implemented a BERT-based sentiment classifier, transfer value prediction model, and performed anomaly detection via time series analysis.