

Debo Jyoti Paul

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EDUCATION

UNIVERSITY OF WISCONSIN - MADISON

MADISON, WI

BACHELOR OF SCIENCE - COMPUTER SCIENCE, DATA SCIENCE AND INFO. SYSTEMS (GPA: 3.64/4.00) **JAN 2024 - MAY 2026**

Research Stats and Data Analysis, Computer Engineering, UI/UX, Artificial Intelligence, BigData - Distributed Systems, Machine Organization. **Awards:** *MJLSP Hackathon Runner-Up 24'; Scholars Award 24'.*

UNIVERSITY OF WASHINGTON - SEATTLE (Dean's List: 2021-2023)

SEATTLE, WA

BACHELOR OF SCIENCE - COMPUTER SCIENCE AND INFORMATICS (GPA: 3.60/4.00)

SEP 2021 - DEC 2023

Discrete Math, Linear Algebra, Computer Programming, Database Systems, Data Structures, Algorithms, Quantitative Methods. **Awards:** *Canadian Intl. Rover Challenge Winners 23' - Husky Robotics.*

EXPERIENCE

Software Developer Intern

4P MARKETING CONSULTANCY

Mar 2024 - Aug 2024

- Designed and built an **Android app** for monitoring and data gathering for over **4,000** daily users with *Java and XML*.
- Created pipelines to **gauge data collection** quality using geofencing, facial recognition, and pixel pattern detection.
- Automated** data processing to eliminate production bottlenecks, and developed an **algorithm** with **95% accuracy** to process data using *Google Vision and Python* to process the data, and proposing an option to **reduce costs** by over **50%**.
- Deployed a script to map file directories, re-categorize files, avoid duplicate overwrites, and **generate detailed reports**.

ML Research Asst.

DATA ANALYSIS & INTELLIGENT SYSTEMS GROUP

Sep 2023 - May 2024

- Conducted literature reviews, **developed strategies** for meaningful output, and built a lightweight personality detection **model (97% acc.)**, using Kmeans, an MLP framework and Grid Search from *Sklearn*.
- Identified steps to **reduce errors by 8%** in prev. models, built a new model **~200x smaller, and 30% faster**.
- Redesigned the pipeline & made the model production ready with *Python*.

Technology Intern

AMERICAN RED CROSS

Oct 2023 - Jan 2024

- Liaised with **13 senior** and regional managers worldwide to revamp the US fundraising **database, addressing their concerns**.
- Developed an internal tracking system for **9,000+ units** and **\$80M in assets** for about 100 regional managers.
- Implemented **3+ new features** and **reduced save/load times by 20%** using *Python* scripts and data processing libraries, ensuring compatibility and accessibility across various devices. Introduced a **standardized data entry guide**.
- Led 2 product** creation projects, created additional visualizations, **synthesized legal documents**, and worked on mini-projects to synthesize data further, working together with **8 senior managers**.

PROJECTS PORTFOLIO - [DEBOJP.GITHUB.IO/PROJECTS](https://debojp.github.io/projects) | GITHUB - [GITHUB.COM/DEBOJP](https://github.com/DeboJP)

- DOLLY (8-2024)**. Developed an accessible & inclusive AI-powered email auto-completion feature using **Gemini**, for personalized real-time writing suggestions. Leveraged cross-encoder to analyze user writing style and context by ranking relevant past emails. Enabled context-aware completions triggered by subject and body, injected directly to the UI. *JavaScript, Flask, Gmail*. ([Github](#))
- SCHEDULING SOFT. (6-2023)**. Designed and implemented a database system with **SQL** on **Microsoft Azure** to manage and optimize vaccine appointment scheduling between patients and caregivers. Integrated scalable backend architecture to handle high user loads, and best practice security measures ensuring reliability and data integrity across all transactions. *Java, JDBC*. ([Github](#))

LEADERSHIP

- Sanitas Intl. 22'** (Co-Founder & Operations Officer): Spearheaded a relief program, delivering aid to **400+** vulnerable families during pandemic-induced lockdowns. Orchestrated wellness workshops, disseminated hygiene kits & month-long food supplies in Bangladesh and India, extending awareness to **2 million** individuals. Raised **30k subscriptions** on social media platforms.

SKILLS

- Languages:** Java, Python, JavaScript, Bash, R, SQL, HTML/CSS, C, Assembly.
- Frameworks & Tools:** React, Flask, Node.js, BeautifulSoup, Selenium, Matplotlib, Scikit-learn, PyTorch, Tensorflow, Git, Docker, HDFS, Spark, Cassandra, Kafka, Figma, Blender, SolidWorks, MongoDB, Firebase, Microsoft Azure, Google Cloud Platform, AWS Services(EC2, S3), Oracle Cloud Infrastructure, MacOS, Windows, Linux, Android, iOS, REST APIs.