Ashashree Sarma

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EDUCATION :

International Institute of Information Technology, Bangalore **Aug 2024 – Present**
Master of Science by Research in Data Science : CGPA - 3.55/4 *Bangalore IND*

Assam Engineering College, Assam Science and Technology University **Aug 2019 – June 2023**
Bachelor of Engineering (Honors) in Computer Science & Eng : First Class, 81.4% (Top 5%) *Guwahati IND*

Maharishi Vidya Mandir Public School **June 2017 – May 2019**
Intermediate (XII) : 87.6% (Grade: A) *Guwahati IND*

SBOA Public School **March 2016 – Feb 2017**
Matriculation (X) : 10 CGPA (School Topper) *Guwahati IND*

EXPERIENCE :

Indian Institute of Technology Guwahati (IIT Guwahati) **Feb 2024 – July 2024**
Deep Learning Researcher (Internship), Da'Spatio Rhobotique Laboratory, Technology Incubation Centre

- Contributing in development of Convolutional Neural Networks (CNN) architectures for a research project under Scholar Deeksha Varshney focused on Image Captioning using Git-Based and Vision-Language Models.
- Tech Stack: Python, PyTorch, Hugging Face Transformers and Datasets, GPU Acceleration
- In-demand research skills: : Computer Vision, Neural Networks, Fine-Tuning, Exploratory Data Analysis, Feature detection and matching.

Nestria (Byte) - Spryte Labs **Aug 2023 – Dec 2023**
Data Science & Software Engineer (Internship) *Remote*

- Gained extensive training in different domains of Data Analysis and Machine Learning including EDA, Statistical concepts, Data Visualization, Feature Engineering and Transformation & implementation of machine learning pipelines.
- Worked collaboratively with team members to conduct in-depth exploratory data analysis on large datasets. Generated actionable insights that informed business decisions and strategy.
- Tech Stack : NumPy, Pandas, Matplotlib, Scikit-learn, Seaborn, Airflow — **GitHub Link:** Upskilling-Analytics-&-ML

TECHNICAL SKILLS :

Languages and Frameworks: Python, JavaScript, HTML/CSS, SQL, Pytorch, Flask, FastAPI
Libraries: NumPy , Pandas , Matplotlib , Scikit , NLTK , Plotly , Seaborn , OpenCV
Developer Tools/Platform: Github, VS Code, Git, MySQL, MongoDB, Airflow, MLOps, CUDA

PERSONAL PROJECTS :

Government Policy Education AI Chatbot | *LLM, Fine-Tuning, Claude 3 - Opus, FastAPI, Next.js* **March 2024**

- Empower citizens with easy access to government policies. The AI chatbot simplifies complex financial policies, offers personalized assistance, and enhances understanding of civic issues.
- **Live Link:** Render + Vercel Deployment **GitHub Link:** Permisionless-AI-Chatbot

Educational Course Recommendation System | *Recommender Engine, scikit-learn, FastAPI, Next.js* **January 2024**

- Developed a 'Content Based' Recommendation System that suggests courses based on user's input of a selected course.
- Techniques of NLP such as Pre-processing, Count Vectorization, Stemming, Cosine Similarity are implemented.
- **Live Link:** Render + Vercel Deployment **GitHub Link:** Educational-Course-RecommendationSys

Contextual Sentimental Analysis | *Vader, newspaper3k, NLTK, BeautifulSoup, Flask* **January 2023**

- Developed a sophisticated Flask app that fetches NEWS articles mentioning a given name as per its related sentiment.
- Leveraged the Vader pre-trained NLP model, integrated Google custom search API, a restful service to extract URLs.
- Techniques used : POS tagging and named entity recognition. — **GitHub Link:** Ethos-Hackathon-Final

CERTIFICATIONS :

- Google Data Analytics Professional Certification , Grade Achieved: 92.50% ⇨ Coursera, Google
- Data Science Cohort | Bootcamp ⇨ Byte Academy
- Python for Data Science, Consolidated score: 72% ⇨ NPTEL, IIT Madras
- Explore ML | Google AI ⇨ Google

POSITION OF RESPONSIBILITY/ LEADERSHIP :

- **AI Mayhem Hackathon - Permisionless,** Participated in the AI Mayhem Hackathon hosted by Permisionless, showcasing expertise in AI technologies and problem-solving skills. ⇨ **March 2024**

- **Service Now Women Code to Win,** Engaged in the Women Code to Win Online Quiz Hackathon organized by ServiceNow, demonstrating knowledge and proficiency in coding and problem-solving within a competitive online environment. **February 2023**

- **Ethos Hackathon - IITG :** Spearheaded the development of an end-to-end project focusing on news sentiment analysis and product analysis during the Ethos Hackathon, an All India Level event. Successfully navigated through the competition to reach the finals held at IIT Guwahati, showcasing leadership and technical acumen in delivering a comprehensive solution. **January 2023**

- **Selection for Nationals in SIH 2022,** Led the development of a secure authentication system as part of the Smart India Hackathon 2022 project. Implemented a robust 2-step authentication process ensuring heightened security measures. **March 2022**

- **AEC Coding Club, Core Team Member** Served as a core team member of the AEC Coding Club, the primary hub for coding enthusiasts within the college, fostering a dynamic environment for technical growth.During my tenure, played an instrumental role in fostering a vibrant coding environment, organizing seminars, and ensuring the club's continued engagement even during challenging times such as the COVID-19 pandemic. Cultivated a lasting community of coding enthusiasts within the college, leaving a legacy of passion and camaraderie that persists to date. **Sept 2019 — May 2023**

EXTRACURRICULAR :

- **College Community Application - Campus Barta:** Led the development of a Progressive Web App for use within the college campus. Developed the UI and integrated features such as a community section for posting college announcements and updates. Implemented a news section using News API to fetch and display current news content. ⇨ **May 2022**

- **Technical Outreach Program for Government Schools:** - Organized and led a weekly outreach program to teach primary students in government schools the basics of internet and web development. Provided practical learning experiences to enhance their understanding and interest in technology. The initiative led to sustained support and resources for the students. **May – July 2022**

- **Coordinator - Pyrokinesis (The College Annual Fest) :** Demonstrating adept event management and planning skills, led a team to organize and execute a successful event, showcasing effective coordination and attention to detail. **March 2023**

- **Vice President - Mukhaa (The Drama And Film Society):** Spearheaded screenplay development initiatives, led a team of creative individuals, and orchestrated captivating street plays. Led the team in creating zero-budget short films, showcasing resourcefulness and creativity while nurturing artistic talent within the society. ⇨ **June 2021 — July 2022**