VANSHIKA BAJAJ

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EDUCATION

Cornell University, New York, NY — May 2026
Master of Science in Information Systems
Relevant Coursework: Machine Learning Engineering, Human-Computer Interaction, Algorithms and Data Structures, Psychological and Social Aspects of Tech

Shri Ramdeobaba College of Engineering and Management, India — May 2023
Bachelor of Engineering in Information Technology | GPA: 3.95

TECHNICAL SKILLS

Coding Language: Python, SQL, C++, HTML/CSS, JavaScript, Java
Libraries: NumPy, Matplotlib, SciPy, Pandas
Tools & Technologies: ETL, Power BI, AWS

EXPERIENCE

Principal Global Services, Engineer, India — Aug 2023 - Nov 2023

- Implemented diverse AWS services dedicated to data processing and analysis, demonstrating proficiency in leveraging cloud-based solutions for efficient and scalable data workflows
- Enhanced IT system security by identifying and fixing critical vulnerabilities across various products, resulting in a 30% reduction in potential security risks, thereby significantly improving overall stability of the systems
- Leveraged ETL tools such as Informatica PowerCenter and Power BI for seamless data processing and visualization to enhance data comprehension across the organization.

Loyal Corporate Consultants, Summer Intern, India — May 2023 - Aug 2023

- Worked on front-end technologies such as HTML, CSS, and JavaScript to create visually appealing and responsive web pages for the organization resulting in increased audience engagement and consistent user experience.
- Utilized Looker Studio and Advanced Excel techniques to extract, transform, and analyze data, to improve business decision-making processes for a rice processing unit client

Centre of Microsystems, Research Intern, India — Jan 2022 - June 2022

- Researched glaucoma detection, utilizing image segmentation & ML techniques for enhanced diagnostic accuracy
- Implemented and optimized an architecture for precise segmentation of optic disc and cup, vital indicators for glaucoma diagnosis; Trained on a large retinal image dataset, achieving a 0.88 accuracy and sensitivity
- Received Best Paper Award at 4th International Conference on Electronic Systems, Signal Processing, and Computing Technologies (ICESC-2022)

PROJECTS

Automatic Domain Classification, Language Technology Research Centre, India — Fall 2022
(Natural Language Processing, Python)
Collaborated on a team project to develop an NLP-based automatic domain classification system for text using TF-IDF and machine learning techniques and achieved 88% accuracy in categorizing documents into domains such as Computer Science, Chemistry, Mathematics, and Physics, demonstrating the effectiveness and precision of the model.

Clause Simulator for English Lab, Ministry of Information Technology, India — Spring 2022
(Python, HTML/CSS, JavaScript, Django)
Developed an algorithm with 90% accuracy for generating infinite sentences with complex clauses. Expanded the project to develop grammar exercises for grades 8-12, implemented on OLab, an educational platform..

ACHIEVEMENTS

- Automatic Domain Classification of Text using Machine Learning IEEE
- Fundus image classification for glaucoma using U-net architecture and logistic regression. IEEE
- Sentence Generator for English Lang using Formal Semantics. IJNGC
- Freelanced as Shopify and Figma website designer, delivering customized e-commerce solutions and user-friendly interfaces.