Ritika Lath

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EDUCATION

Vidyalankar Institute of Technology, (**NAAC accredited with the highest-grade A+**)   **Mumbai**, **India**
Bachelor of Computer Engineering (GPA: 9.84/10)   **Aug' 19 - May'23**
Relevant Coursework: DBMS, DWM, Probabilistic Graphical Model, Quantitative Analysis, Artificial Intelligence, Big Data Analytics, Social Media Analytics, Machine Learning, Applied Data Science

Kischinchand Chellaram College   **Mumbai, India**
Higher Secondary School (Percentage 79.9 %)   **Jul'17 - May'19**
Relevant Coursework: Physics, Chemistry, Maths, Biology, Information Technology

Gloria Convent High School   **Mumbai, India**
Secondary School Examination (Percentage 94 %)   **May 2017**

ACADEMIC PROJECTS

Title - **Real-Time Sign Language Recognition System, (8ᵗʰ Semester, 2023)**
Team Size - 4   Location - On Campus
- **Summary** - Built a real-time American Sign Language recognition system to aid the deaf community. Used OpenCV for image preprocessing. Employed a convolutional neural network with softmax activation to classify data into 10 ASL classes.

Title - Slang Language Detection and Recognition (8th Semester, 2023)
Team Size - 4   Location - On Campus
- **Summary** -- Slangs used in social media were detected using various algorithms like Gaussian Naive Bayes, and Random Forest. We also employed deep learning models like LSTM and bidirectional LSTM. Slang recognition was done using the BERT (Bidirectional Encoder Representations from Transformer) method.

Title - Customer Segmentation, (6ᵗʰ Semester, 2022)
Team Size - 4   Location - On Campus
- **Summary** - Created an unsupervised model for strategic supermarket marketing. Studied KMeans, DBSCAN, and Agglomerative Hierarchical Clustering to cluster customers based on spending patterns. Aiming to enhance profits through targeted marketing and improved business strategies.

Title - Email Spam Detection Model (3rd Semester, 2020)
Team Size - 4   Location - On Campus
- **Summary** - A supervised machine learning project classified the email as spam or ham. A logistic classifier from the turicreate library was used to create the classification model. The model was then deployed on Gmail accounts using Gmail APIs to further evaluate its accuracy in the real world.

Publication

Title: - "Intelligent Sign Language Recognition Enhancing Accessibility for the Deaf Community" **IEEE conference on computing, communication and network technologies (ICCCNT)**
Title : - " Slang language Detection and Identification In Text" **IEEE conference on computing, communication and network technologies (ICCCNT)**
Journal Published Link:

INTERNSHIPS

GirlScript Summer Of Code   **Mumbai, India**
Contributor   **May 23 - Aug'23**
- Collaborated on open-source initiatives in data science and web development, mentored by experts. Engaged in projects including Indian crime analysis, utilizing Matplotlib, Seaborn, and Plotly for state-level crime data comprehension. Elevated capabilities of two distinct projects by implementing HTML and CSS enhancements.

Vidyalankar Institute of Technology   **Mumbai, India**
In-house Internship   **Jun'21 - Aug'21**

- Engineered "InBOT - The Induction Bot" during an in-house Internship. Launched on a mirrored website, it adeptly addressed queries spanning clubs, festivals, academics, sports, history, and beyond. Employed HTML, CSS, Bootstrap, JavaScript, NLP, and ANN to craft this intelligent solution.

Prepintern   **Mumbai, India**

Web Development Intern   **Jun'20 -Jul'20**
- Acquired understanding of MVC architecture. Employed Laravel backend to construct an internship portal connecting students and employers. Enhanced user experience through Vue.js frontend and Vuetify components for UI design.

Vidyalankar Institute of Technology   **Mumbai, India**

Co-Author   **Mar'20 - Jun'20**
- Managed a 10-student team, ensuring balanced workload and effective communication for timely task completion. Led the creation of the recommended Semester 2 Engineering Chemistry e-book through thorough research and information compilation from diverse sources.

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VOLUNTEERING AND EXTRACURRICULAR ACTIVITIES

Events Core, Google Developer Student Club VIT   **Aug'21- Aug'22**
- Founding member of this club in our college. Key member of a 10-person team in organizing webinars, workshops, etc. Skillfully managed events with 400+ participants, ensuring seamless execution.

Web Developer, Chezuba   **Jul'21 - Oct'21**
- Developed an official website for SAVE OUR ENVIRONMENT TRUST, a Registered Non-profit Trust organization based in South Africa.

General Secretary, Computer Engineering Students Association, VIT Chapter   **Aug'21- Aug'22**
- Led a team of over 30 members, acting as a central liaison between convenors and committee members. Collaborated with speakers, aiding in event planning and execution alongside convenors and core committee. Efficiently allocated tasks to optimize team synergy.

Cultural Core, Verve VIT   **Jan'21- May'21**
- Managed guest hospitality and judge coordination during my tenure. Led cultural activities, from fresher events to inter-dance and inter-drama teams. Orchestrated major event "Mr. and Miss VIT" at annual college festival, Fest Verve.

PR and Marketing Team, Digit Squad VIT Mumbai Student Club   **Oct'20- Aug'21**
- Founding member of this club in our college leading its establishment. Directed club's mission promotion within college. Managed public relations, drafted event publicity messages for Digit Squad Club, successfully attracting student participation.

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TECHNICAL SKILLS
- **Languages**: Python, C, Java, R, System Commands
- **Web development**: HTML, CSS, Bootstrap, Javascript, JQuery Reactjs, Vuejs, Laravel, ExpressJs, Flask
- **Databases**: SQLite, PostgreSQL, MySQL, MongoDB
- **Machine Learning**: Numpy, Pandas, Tensorflow, Scikit-Learn, Keras, Matplotlib, Seaborn, Ploty, OpenCV, ML algorithms
- **Software**: Microsoft Excel, PowerPoint, PowerBI, Tableau

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CERTIFICATIONS
- Applied Data Science Lab - World Quant University   April 10th, 2023
- Advanced Google Analytics - Google Analytics Academy   March 31st, 2023
- Data Science: Visualization – HarvardX   Jan 24th, 2023
- Excel Skills Virtual Experience Program - JPMorgan Chase &Co   July 3rd, 2023
- Neural Networks and Deep Learning - deeplearning.ai   May 5th, 2020
- Emotion and Sentiment Analysis with/without NLTK using Python – Udemy   April 3rd, 2021
- Introduction to R – Infosys   Oct 30th, 2021
- Machine Learning Foundations: A Case Study Approach - University of Washington   Oct 9th, 2020

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ADDITIONAL ACCOMPLISHMENT
- Secured 3rd rank in 10th grade
- Reached the semifinal of Ideathon, an intra-college competition.