Aradhita Bhandari

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Education

New York University   **Sept 2022 – May 2024 (anticipated)**
Master of Science in Data Science   *New York, United States*

Vellore Institute of Technology   **Jun 2018 – Jun 2022**
Bachelor of Technology in Information Technology   *Tamil Nadu, India*
- CGPA: 9.09/10.0
- Coursework: Natural Language Processing, Soft computing, Artificial Intelligence, Big Data Analytics, Data Mining Techniques, Open Source Programming, Human Computer Interaction, Information Security

Skills

- **Programming:** Python(Numpy, Pandas, Matplotlib, NLTK, Spacy, Scikit-learn, TensorFlow), SQL, R, Java, C++
- **Technologies:** Jupyter Notebooks/Labs, Spyder, R Studio, Git/GitHUb, GSuite, Microsoft Office Suite, Tableau, Hadoop

Experience

Bosch, India   **Jan 2022 – Jun 2022**
Data Science Intern   *Cloud and Mobility*
- Performing Aspect Based Sentiment Analysis via Topic Modelling using **NLP in Python3**
- Maintaining cloud scalability and reproducibility using **MLops techniques** and planning weekly **agile milestones**
- Creating automated process for scraping, processing, and **concealing Personal Identifiable Information** in Tweets for each month in batches
- Presenting external stakeholders at **Mahindra Group** with analytic visualizations in Tableau about the product

Blob City, India   **Aug 2021 – Dec 2021**
Data Science Intern   *AutoAI and AI cloud*
- Development and testing of automatic feature selection in smart "AutoAI" product and **open source package**
- Using **click-stream analysis** to identify areas in websites where users face issues or lose interest; presenting the results to external stakeholders at **Tata Starbucks** and resulting in improvement of user retention by 14%
- Analysing engine maintenance logs and critical error logs to preemptively predict failures; presenting visualizations to external stakeholders at **Delta Airlines**
- Using R, Python3, and Excel, and Tableau for Data cleaning, organization, and visualization based on stakeholder requirements

Excubator, India   **Jun 2021 – Aug 2021**
Data Engineering Intern   *Venture Capital & Private Equity*
- Creating algorithms in Python3 to extract relevant information from bulk data automatically
- Engineering pipelines to clean, transform and analyze data; automating Excubator's manual data handling
- Improved efficiency of data pipeline from **6 hrs to 2 minutes** per week via automated pipelines

Academic experience

Undergraduate Research Assistant   **Jan 2021 – Dec 2021**
Vellore Institute of Technology   *ML, Blockchain, XAI, healthcare*
- Working with Dr. Aswani Kumar Cherukuri, ex-Dean, and Dr. Balakrushna Tripathy, ex-Dean, of School of Information Technology, VIT
- Spearheading **4** different research projects in the fields of Cybersecurity, ML, Healthcare, and Blockchain technologies
- Presenting findings to professors in other universities and departments for collaboration on Healthcare related **Genetic algorithm** research
  * Aradhita Bhandari, B. K. Tripathy, Khurram Jawad, Surbhi Bhatia, Mohammad Khalid Imam Rahmani, Arwa Mashat, "Cancer Detection and Prediction Using Genetic Algorithms", Computational Intelligence and Neuroscience, vol. 2022, Article ID 1871841, 18 pages, 2022. https://doi.org/10.1155/2022/1871841

eXplainable AI in Machine Learning   **Aug 2021 – Dec 2021**
Vellore Institute of Technology
- Using correlation and sampling to handle learning on highly skewed data of 2830743 rows x 79 columns with 15 classifications; using XAI to handle skewness and improving accuracy from **82% to 97%**
- Testing various set-ups for improving accuracy such as preliminary zero-day and clustering models prior to detailed classification
- Interpreting results using LIME, SHAPley values and comparing between Explainable Boosting Machines and blackbox models

Leadership / Extracurricular

Computer Society of India, VIT   **Jun 2019 – July 2021**
Board Member, Ideation Head
- Spearheading project innovation and internal events
- Coordinated a team of **30 undergrad students**
- Coordinator for DevSpace (2021) - Awarded South India's Largest Student Developers' Conference (2018)

Make A Difference, NGO   **Nov 2019 – Jun 2021**
Wingman
- Mentored 3 12th grade underprivileged students in soft skills, technical skills, and provided tutoring
- Worked with the students and their guardians for college applications
- Collecting and handling sensitive data for the youth throughout the year