Parikshit Vijay Urs

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EDUCATION

Syracuse University - College of Engineering & Computer Science, Syracuse, NY   August 2022 - May 2024
Master of Science in Computer Science | GPA: 3.7 / 4

University of Mumbai - SIES Graduate School of Technology, Navi Mumbai, India   August 2017 - October 2021
Bachelor of Engineering, Computer Engineering | GPA: 8.47 / 10

TECHNICAL SKILLS

- **Languages/Frameworks:** C, Python, C++, Haskell, HTML, CSS, JavaScript, React, jQuery, Bootstrap, PHP, Django, Java.
- **Visualization/Libraries:** Matplotlib, Pandas, Seaborn, Scikit-learn, Pytorch, TensorFlow, NetworkX.
- **Databases:** MySQL, PostgreSQL, Firebase/Firestore.
- **Tools:** Git, Google Colab, Jupyter Notebook, Node.js, Microsoft SQL Server, AWS, VS Code, Excel, Adobe, JIRA, Figma.

EXPERIENCE

Graduate Research Assistant, Syracuse University – Syracuse, NY   October 2023 - December 2023
- Developed an ANN model with MLP Regressor, predicting DOC in Adirondack Lakes using a 40-year dataset (1980-2020), showcasing machine learning's role in environmental science.
- Enhanced ANN accuracy by 30% through data analysis with advanced visualization, hyperparameter tuning, and median imputation for missing data.
- Achieved a 90% confidence interval in DOC predictions, demonstrating the model's precision and significance in ecological monitoring and data interpretation. (Python, TensorFlow, Multi-Layer Perceptron (MLP) Regressor, Sklearn)

Artificial Intelligence Intern, Acmegrade – Bengaluru North, India   February 2022 - April 2022
- Developed 3 key projects: sentiment analysis (4,000+ social media posts), stock prediction (5 years of data), and facial recognition (86% accuracy).
- Applied NLP, Deep Learning, RandomForest Classifier, and Computer Vision, enhancing project efficiency by 30%.
- Led a Chat-bot project using WordNetLemmatizer & Neural Networks, boosting customer engagement by 25%.

Website Development Intern, Calibehr Business Support Services Pvt. Ltd – Navi Mumbai, India   December 2019 - January 2020
- Utilized concepts of HTML, CSS, Bootstrap, jQuery, and JavaScript to develop a responsive Knowledgebase Portal for LeadScape application, enhancing user engagement by 40% and reducing support queries.
- Created Knowledgebase Portal for LeadScape application, achieving a 30% boost in user self-service and a 20% decrease in inquiry resolution time.

ACADEMIC PROJECTS

PyGraphML: Graph-Based ML Python Library   October 2023 - December 2023
- Pioneered PyGraphML, a Python library for advanced graph-based machine learning, enhancing data interpretation and predictive analytics with innovative models like GCN, GAT, and Graph Autoencoders.
- Significantly improved computational efficiency and accuracy of graph algorithms, contributing to a more robust and scalable tool for complex data analyses.
- Fostered community engagement and user accessibility through comprehensive documentation and real-world application examples, demonstrating the library's practical impact and ease of use. (Pytorch, NetworkX, SciPy, Git)

Flight Arrival Delay Prediction   March 2023 - May 2023
- Engineered a machine learning model achieving 83% training and 74% testing accuracy for predicting flight arrival delays, utilizing data such as weather, weekdays, and airline-specific factors.
- Analyzed over 1,000 United Airlines flights at Syracuse Airport from Jan 2022 to April 2023 to identify key delay factors.
- Collaborated in a four-person team, enhanced model with airport congestion and maintenance data.
(Python, Classifiers, Sklearn, Pandas, Encoders)

TweetDisaster: Real Disaster Classification in Social Media   March 2023 - May 2023
- Developed and trained LSTM model on over 10,000 tweets fetched through the Twitter API, classifying real disaster tweets.
- Analyzed traditional ML algorithms with CountVec, TF-IDF, and N-gram modelling to determine the best performance model.
- Implemented a trainable embedding layer + LSTM model and utilized pre-trained Glove embeddings, achieving an accuracy of 83% on tweet classification. (Python, Twitter, TensorFlow, GloVe)

PUBLICATIONS

- Fire And Smoke Detection System: International Conference on Trends in Engineering, Applied Sciences and Management IC- TEAM 2022,08th-09th April 2022. ADBU Journal of Engineering Technology (AJET) ISSN: 2348-7305. (GitHub)

TECHNICAL CERTIFICATIONS

- Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning - Coursera.
- Deep Learning Specialization by Andrew Ng - Coursera.