

Sravani Wayangankar

Bloomington, IN | +1 (812) 8035444 | sravaniwayangankar@gmail.com | [LinkedIn](#)

EDUCATION

Indiana University Bloomington, Bloomington IN Master of Science in Computer Science Coursework: <i>Artificial Intelligence, Machine Learning in Signal Processing, Network Science, Data Structures and Applied Algorithms, Intro to Bioinformatics, Project with Eli-Lilly: Regulatory NLP Information Retrieval Improvement using Ontology</i>	Aug 2021 – May 2023
Savitribai Phule Pune University, Pune, India Bachelor of Engineering (Computer Engineering)	Aug 2015 - Jun 2019 CGPA – 8.45 / 10.0

TECHNICAL SKILLS

Languages: Python, C, C++, Java, R, HTML, CSS, JavaScript, Node.js, Android development Databases: MySQL , MongoDB, SAP S/4 HANA, Neo4j, Firebase, Hadoop Services: AWS EC2, Google Compute Engine, Google Cloud Functions, OpenStack Libraries: Numpy, Pandas, Sklearn, Dlib, OpenCV, TensorFlow, Keras, SciPy, PyTorch, Matplotlib, Seaborn, Plotly, ggplot2, network Ongoing learnings: Containers and orchestration (Docker, Kubernetes), DevOps	
--	--

WORK EXPERIENCE

Research Assistant, Indiana University Bloomington • Optimized time-consuming, highly complex graph algorithms using C and C++ , utilizing sparse matrix objects from GraphBLAS C API , and researching its applications in Network Science and Machine Learning. • Used the LAGraph library as an abstraction over GraphBLAS to work with lower-level graph algorithms for network analysis. • Conducted feasibility studies & literature surveys to apply different linear algebra techniques to graph embeddings.	Jan 2022 – Present
Associate Instructor - Intro to Python Programming, Indiana University Bloomington • Instructed Undergraduate students in Python Programming from scratch & conducted interactive laboratory sessions in key topics like list comprehension and slicing, file handling, using python shell, generators, and guided students in collaborative projects. • Organized in-class activities, monitored virtual forums, conducted office hours & graded assignments, written & practical exams.	Aug 2021 – Dec 2021
Associate Software Engineer, Accenture Solutions Pvt. Ltd., Pune, India • Built operational workflows and manufacturing scenarios for clients by eliciting stakeholder's requirements, prioritizing configurations, and demand forecasting as a Functional Consultant allowing clients to plan production timelines reducing excess resource usage. • Identified areas of improvement by designing, developing, and testing dashboards with S/4 HANA database in SAP Production Planning (SAP PP) & Quality Management (SAP QM) to generate performance reports & usable insights for business processes.	Oct 2019 – July 2021
Data Science Intern, NES, Pune, India • Built an android application split into 2 modules that targeted the main concerns of the visually & hearing impaired. • "Virtual Ear": implemented speech to text & hand gesture recognition using CNN & Google Speech converting sign language to audio. • "Virtual Eye": created a text detection & recognition model with SSD (Single Shot Multibox Detector) and PolyNet CNN by taking a video input and reading out the text present using SQL database.	Oct 2018 – Feb 2019

PROJECTS

Nucleotide Prediction and Mutation analysis • Analyzed & created valid DNA sequence alignments with Needleman Wunsch & Smith Waterman alignment algorithms. • Predicted the feasible nucleotides at a position in a sequence using the modification of Hidden Markov Model & Viterbi algorithms. • Classified the data using the Stochastic Gradient Descent and KNN into broader classes of viruses using the given genome data and predicted the probability of mutations that will destroy the virus with an accuracy of 93% .	Nov 2021 – Dec 2021
Preventing retail crime using Facial recognition • Spearheaded a team of 3 to detect & recognize shoplifters using Raspberry Pi 3 and ResNet CNN over a real-time video feed with Softmax & LBP classifier achieving 98% accuracy . • Utilized IFTTT application to incorporate a Burglary Alarming System alert store owners & authorities for rapid response, lowering the crime rate by 91% .	Jan 2019 – May 2019
Government Chat-Bot for complaint registration, resolution, and information relay • Deployed an Android application to relay water & power cut information in different areas with a chat-bot to register & resolve complaints using NLTK library . • Categorized processed complaints with Multinomial Naive Bayes for appropriate segmentation & routing reducing MTTR -Mean Time to Resolution by over 90% & setup Firebase triggers using Cloud Functions to notify citizens with a suitable reply & resolution time.	Sept 2018 – Dec 2018
Sentiment Analysis of Political Influencers on Twitter • Scraped & preprocessed 42k tweets and performed standard NLP pre-processing and noise removal techniques with tweepy , textblob , and Regex (RE) library to evaluate pre-election sentiments of political influencers. • Generated word embedding using TF-IDF , Word2Vec and GloVe for feature extraction and built classification models for the sentiments with SVM , Logistic Regression , Random Forest and XGBoost achieving best F1 score of 0.71 .	May 2018 – Aug 2018
Trip History Analysis in R • Evaluated the impact of local hotspots in attracting tourists to vacation destinations from the booking.com hotel listings database by performing EDA using Plotly and ggplot2 and performed PCA to identify the most impacting features. • Built a CART model to categorize tourist behavior and predict and recommend the likelihood of a tourist to visit a destination from 1.6 million hotel reservations & trip itinerary data to obtain an AUC Score of 0.96 .	Jan 2018 – Apr 2018

PUBLICATIONS

• Survey of Internet of Things in the Fog : IEEE Global Conference on Wireless Computing and Networking 2018 • Face Recognition using CNN : International Journal of Advance Research, Ideas, and Innovations in Technology • Convolutional Neural Networks : International Journal of Advance Research, Ideas, and Innovations in Technology	
---	--