Navya Jammalamadaka

Email: nsj9072@nyu.edu
LinkedIn:linkedin.com/in/navya-jammalamadaka/ Mobile: +1-646-267-1665
Github: github.com/navyajammalamadaka Portfolio: navyajammalamadaka.github.io/navyaPortfolio/

Education

- **New York University** — New York, USA
  Masters in Computer Engineering; GPA: 3.81/4 — *Sep 2021 - May 2023*
  Courses: *Big Data,Data Visualization, Machine Learning,Deep Learning,Principles of Database Systems, ML for Cybersecurity, Internet architecture and protocols, Computer systems architecture*
- **K L University** — Vijayawada, India
  Bachelor of Technology - Electronics and Communications; GPA: 9.48/10 — *Jul 2016 - May 2020*
  Courses: *C programming,Data structures,Computer Networks,Object-Oriented Programming,Artificial Neural Networks, HMI*

Skills Summary

- **Languages**: Python, Java, C, C++, R, JavaScript, SQL, HTML, CSS , PHP
- **Frameworks**: Hadoop, Spark, Dask, Scikit, PyTorch, TensorFlow, Keras, Django, Flask, Tableau, Power BI, ETL
- **Tools**: Kubernetes, GIT, PostgreSQL, MySQL, MongoDB
- **Platforms**: Web, Windows, AWS, MATLAB, IBM Cloud, Docker
- **Softskills**: Leadership, Project Management, Problem Solving, Public Speaking, Time Management, Communication Skills

Experience

- **New York University, New York, NY, USA**
  Teaching Assistant, Principles of Database Management — *May 2022 - Sept 2022*
  - **Subject-related responsibilities**: Consulting with Professor on lecture content, facilitating class discussions on relational and logical models, solving complex SQL problems
  - **Interaction with students**: Managing office hours for Professor, addressing students questions while delivering constructive performance-based feedback and grading weekly tasks for a class of 100 students
- **Quantium, Hyderabad, TS, India**
  Data Analytics Intern — *Sep 2020 - Oct 2020*
  - **Data preparation and customer analytics**: Conducted analysis on client's transaction dataset and identified customer purchasing behaviors to generate insights and provide commercial recommendations
  - **Experimentation and uplift testing**: Extended the analysis from Data preparation to identify benchmark stores that allow to test the impact of the trial store layouts on customer sales
  - **Analytics and Data Science**: Built dashboards to provide insights from raw data and prepared a report for the client
- **Scarlett Moose Entertainment, Vijayawada, AP, India**
  Software Engineer - Programming Intern — *Mar 2019 - July 2019*
  - **Game Art Programming and Artificial Intelligence Research**: Performed C++, Java coding to create graphics, sound, AI for characters in the video games. Spearheaded a team of 15 to conduct and integrate research on making computer-controlled characters more realistic in terms of expression, reaction and communication
- **ECIL, Hyderabad, TS, India**
  Software Engineer Trainee — *May 2018 - June 2018*
  - **Web development and Optimization**: Developed a telecommunication-based web application using HTML, CSS, JavaScript and optimized the performance of CSS by 15%. Reduced external HTTP requests and employed JDBC API for database connectivity and driver connections

Projects

- **Health Insurance Analysis and Prediction (Big Data, PySpark, Sparkml, SparkSQL)**: Spring 2023
  • Analyzed medical insurance plan Big data parameters using PySpark to observe plan rates, health habits, age affect on people from different demographics of the US
  • Built a linear regression recommendation system with **accuracy of 94**% to provide insights on optimal plan rates and benefits by considering people's age and the consumption of Tobacco rate
- **Online Car Rental System (HTML, CSS, JavaScript, MySQL, PHP)**: Spring 2022
  • Developed a real-time web based car rental system using PHP,HTML, CSS, and achieved efficiency by reducing the turnaround time by **12**% using 3NF Normalized queries and Query Optimization. Implemented Password Encryption, Cross-Site Scripting, Form validation and User Authentication to ensure data security
- **Emoji Creation with Deep Learning (Facial Recognition, OpenCV, Keras, Tkinter)**: Fall 2022
  • Worked on FER2013 face image dataset having 28709 images belonging to 7 classes to build a deep learning model and mapped them to corresponding emoji avatars using OpenCV and Haarcascade.
  • Mapped each facial emotion with its corresponding emojis or avatars and built a GUI to capture live videos using Webcam and converting it to emoji avatar using Tkinter library.
- **Chronic Kidney Disease AI Chatbot (Nltk, Sklearn, Numpy)**: Spring 2022
  • Developed a simple AI-based Chatbot to handle specific queries regarding Chronic Kidney Disease using NLTK library. The bot analyses text provided to it from an article as input and answers the questions asked by the user.

Publications

- **Book: Big Five Personality Prediction from Social Media data using Machine Learning Techniques.**: Developed text classification models using SVM, Random Forest, Logistic Regression, and Naive Bayes to classify tweets in order to predict personality from text data. Presented results show that SVM has worked best for personality prediction of Twitter users with an accuracy of 94%. Tech: Python, Web Development, Machine Learning (IJEAT, April '20).