Shilpi Hiteshkumar Parikh

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ACADEMIC DETAILS

Arizona State University, Tempe, AZ, United States **Aug 2021 – May 2023**
Master of Science in Software Engineering (GPA – 3.83/4.0)

Charotar University of Science and Technology, Nadiad, Gujarat, India **July 20 – May 2021**
Bachelor of Technology in Computer Engineering (GPA – 9.49/10.0)

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, JavaScript, PHP, Android, C/C++, C#
Technology: ReactJS, AngularJS, AWS, GCP, AWS Lambda, PyTorch, Machine Learning, HTML, CSS, NodeJS, BootStrap, REST API, Docker, Web API, Django, Spark, Hive
Database: MS SQL, MySQL, MongoDB, RDBMS, Amazon RedShift, Firebase, NoSQL
Tools: Git/Github, Azure DevOps, Google Colab, Jupyter Hub, VSCode, PyCharm, Tableau, Taiga, Jira, Selenium, Slack, Weka, Draw.io, Adobe XD, Android Studio

WORK EXPERIENCE

Research Science Intern, Hitachi America Ltd. (Python, GNN, Machine Learning) **Feb 2023 – May 2023**

- Spearheaded the development of a cutting-edge Graph Neural Network (GNN) to analyze the supply chain with respect to various factors involved, including but not limited to transportation, inventory, and demand forecasting
- Leveraged an extensive understanding of machine learning models, experimenting with and implementing various linear and neural network models, to analyze data accuracy, providing critical insights to drive informed decision-making
- Developed a standardized flow for data generation and formatting, enabling streamlined and efficient data processing, analysis, and visualization for stakeholders
- Collaborated closely with cross-functional teams to gather requirements, design and develop the GNN architecture, and conduct rigorous testing and validation to ensure its effectiveness
- Demonstrated exceptional problem-solving skills by identifying and resolving complex issues related to data quality, accuracy, and formatting, contributing to the overall success of the project

Software Development Engineer Intern, Amazon.com, Inc (ReactJS, Java, TypeScript, AWS) **May 2022 – Aug 2022**

- Successfully designed and developed a comprehensive data visualization system utilizing React and AWS technologies, which enabled effective tracking and analysis of key metrics from the concession customer data
- Developed customized filtering functionality for the dashboard, allowing for real-time data exploration and analysis by stakeholders
- Leveraged AWS services to create highly performant APIs, effectively retrieving and processing large datasets from the data source such as AWS RDS
- Employed Java programming language to design and implement a highly efficient AWS Lambda function, enabling seamless connections to the data source and ensuring smooth API response
- Successfully integrated the front-end and back-end components to create an end-to-end system that seamlessly delivered critical insights and improved decision-making
- Worked on a robust CI/CD pipeline utilizing various stages, including code commit, build, testing, and deployment, which significantly reduced development cycle times and enhanced the overall software quality

Machine Learning Engineer, Omdena Collaboration (Python, Datasets, Data Visualization, Modelling) **March 2021 – Aug 2021**

Increase drug safety by detecting anomalies in Clinical Data using Machine Learning

- Performed Exploratory Data Analysis and Data Visualization on the datasets, and figured out the useful attributes and features that can be used for model development
- Prepared ML model using weak-supervised (Linear Based Model) learning and unsupervised learning (DBSCAN, Gaussian Mixtures, Bayesian Gaussian Mixtures, Isolation Forest, and Extended Isolation Forest) approach for detection of anomalies from the clinical data
- Developed a RESTFUL API to detect anomalies from the clinical data automatically

Leveraging Machine Learning to Predict Accomplishment Rate of Startups

- Lead the Data Visualization task, and developed a visualization final deliverable in Flourish Studio
- Predicted startup success factor using Random Forest Classifier, XGB Classifier, and Naive Bayes Classifier

Technology Intern, Thomson Reuters Corporation (AngularJS, C#, TypeScript) **Jan 2021 – June 2021**

- Contributed to the development of the user interface for all ONVIO Brazil applications by designing the layout and functionality of the navigation menu bar, providing a seamless user experience
- Demonstrated exceptional programming skills by developing a custom Angular service to enable dynamic menu creation, allowing for easy and efficient updates to the navigation bar
- Took ownership of delivering innovative features by developing the Global Menu Search functionality, providing users with a convenient and effective means to navigate across multiple modules
- Collaborated closely with cross-functional teams to ensure seamless integration of the new feature with all ONVIO interface applications, resulting in a unified and intuitive user experience

PROJECTS AND PUBLICATIONS

Customer Relationship Management System (ReactJS, TypeScript, Java, Python, Django) **Jan 2023 – May 2023**

- An inclusive CRM analytics dashboard was developed, offering valuable insights to investors, customers, leads, and deals, enabling stakeholders to make informed decisions and identify growth opportunities through key metrics and data visualizations
- Implemented a robust leads module, enabling efficient tracking and monitoring of lead conversions and implemented a deal pipeline feature was designed to streamline deal management, providing visual representations of each stage for improved forecasting, resource allocation, and decision-making
- Implemented a versatile investor module that facilitates personalized communication, customized reporting, and targeted investor management, promoting strong relationships and productive collaboration

Research Paper - 'A Comparative Study of Speech Emotion Recognition' (Python, Machine Learning, Deep Learning) **May 2020 – Oct 2022**

- Implemented Speech Emotion Recognition system after factoring in the features. Classifiers used for the implementation were SVM, MLP, CNN, and RNN-LSTM classifiers. Also tested the dataset on variants of this individual classifier
- Prepared a detailed Comparative Table representing the strong and weak points of each of the methods used for implementation

IGI Global Book Chapter - Chapter3 Network Intrusion Detection Using Linear and Ensemble ML Modeling (Python, Network Analysis) **Nov 2020 – April 2021**

- Researched the different types of network intrusions affecting the breakdown of the network
- Developed and used Linear and Ensemble Machine learning algorithms for the detection of intrusion in the network