Chirag Hegde

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EDUCATION

North Carolina State University - Raleigh, United States *Aug 2023 - May 2025*

- *Master of Computer Science* ***GPA: 3.5/4.0***
- Coursework: Automated Learning and Data Analysis, Artificial Intelligence, Social Computing and Decentralized AI, Graph Theory, Cloud Computing, Software Engineering, Neural Network and Deep Learning, Object-oriented Design and Development, Design and Analysis of Algorithms

A.P. Shah Institute of Technology - Thane, India *Aug 2019 - May 2023*

- *Bachelor of Technology in Computer Science* ***CGPA :8.9/10***
- Coursework: Data Analytics, Machine Intelligence, AI, Cloud Computing, Computer Networks, OS, Big Data, Network Analysis and Mining, Compiler Design, Microprocessors, Software and Systems Performance

SKILLS

- Languages: Python, R, C, Java, CSS, HTML, JavaScript, MATLAB, NodeJS, ReactJS, Kotlin, Tableau
- Database and Operating Systems: PostgreSQL, MySQL, MongoDB, Ubuntu
- Tools/Frameworks: GIT, Postman API, AWS, Hadoop, Docker
- Certifications: Certified as an AWS Academy Graduate - AWS Academy Cloud Foundations from ICT Academy, Palo Alto Networks Academy Cybersecurity Foundation (Coursera), HTML, CSS, and JavaScript for Web Developers (Coursera)

PROFESSIONAL EXPERIENCE

Software Intern, **TetherFi**, Bengaluru, India *June – Nov 2022*

- Designed and developed a highly accurate chatbot capable of retrieving institutional documents from any server within the organization, ensuring precision and efficiency.
- Conducted meticulous testing of REST API functionality, rigorously verifying accuracy, reliability, and responsiveness to application changes to enhance the chatbot's performance.
- Spearheaded the architectural development of the chatbot, including the creation of essential API calls.
- Engineered a sophisticated Natural Language Processing (NLP) model to interpret instructions accurately and implemented a Deep Learning algorithm to generate more contextually relevant and precise responses, resulting in an improvement of response accuracy.

Software Intern, **SoftLink,** Mumbai, India *Feb – Sep 2021*

- Spearheaded the successful implementation of a comprehensive digital transformation initiative within the logistics industry, leveraging cloud-based technologies and ERP solutions.
- Led a cross-functional team through the adoption of advanced analytics, AI-driven algorithms, and IoT integration, resulting in a increase in operational efficiency.

PROJECTS

Student Attentiveness Evaluation in Classroom Using Face Recognition and Machine Learning

- Developed a system for real-time evaluation of student attentiveness using facial cues, such as head pose and eye movements.
- Implemented a Support Vector Machine (SVM) model for predictive analysis and a Convolutional Neural Network (CNN) for face detection, capable of recognizing up to 20 faces simultaneously.
- Technologies used: Python, SVM, CNN, OpenCV

Sign Language Detection Using Deep Learning

- Utilized deep learning to recognize and interpret sign language with 95% accuracy using a Convolutional Neural Network (CNN) optimized through hyperparameter tuning.
- Technologies used: Python, TensorFlow, CNN, Kaggle datasets

Data Analysis and Data Visualisation

- Leveraged Kaggle datasets to gather and preprocess COVID-19 datasets for India.
- Developed a data dashboard for visualizing COVID-19 trends in India using Streamlit, featuring dynamic graphs and charts.
- Analyzed data including test results and vaccination rates across different states
- Technologies used: Python, Streamlit, Pandas, Matplotlib

News Classification using BERT and Roberta

- Led the development of a news classification system using BERT and RoBERTa models, enhancing text classification accuracy.
- Conducted extensive data preprocessing, model training, and performance evaluations, establishing RoBERTa's superiority over BERT.
- Technologies used: Python, PyTorch, BERT, RoBERTa, scikit-learn