

Abhishek Sandeep Firodiya

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EDUCATION

- **North Carolina State University**, Raleigh, NC Aug 2022 - May 2024
Master of Computer Science **GPA: 4.0/4.0**
Coursework: Design and Analysis of Algorithms, Automated Learning and Data Analysis, Fundamentals of Data Science, Database Management System, Neural Networks and Deep Learning, Human Computer Interaction, Social Computing
- **Pune Institute of Computer Technology** June 2016 - Apr 2020
Bachelor of Engineering in Information Technology **GPA: 9.28/10**
Coursework: Data Structures, Machine Learning, Software Engineering, Web Development, Computer Network

SKILLS

Programming and Web Development : Python, JavaScript, TypeScript, HTML, CSS, Bootstrap, R, C, C++, Node.js, JDBC

Databases : MySQL, MongoDB

Operating Systems : Ubuntu (Linux), Windows, MacOS

Tools & Frameworks : Git, JIRA, Rest API, Frappe Framework, Angular, React, Tableau, Adobe Creative Suite

EXPERIENCE

- **Software Engineer @ Elasticrun, Pune, India** July 2020 - June 2022
 - Developed responsive platforms using Python, RestAPI, Javascript, HTML, CSS, and MySQL to maximize business outcomes in this ecommerce and logistics company.
 - Engineered a Sales and Operations Planning tool for field managers, **reducing the planning time from 15 days to 3 days.**
 - Pioneered the development of a brand platform, **optimizing the time to generate insights from 2 days to 2 minutes** for metrics such as sales, throughput, customer engagement, and reach of partner brands.
 - Analyzed customer acquisition using Hotjar and Google Analytics to increase user engagement for the platforms.
 - Designed an insightful UI for the Data Science and Forecast Analysis team to monitor ML models and predict warehouse sales.
 - Built a one-stop solution to visualize the sales data for warehouses based on 32 different dimensions using the D3JS library.
 - Performed on all levels of the software engineering cycle from documentation to testing, maintenance, and support of all the platforms I built which allowed me to develop the ability to work efficiently and effectively as part of a team.

PROJECTS

- **Unify - Missing Person Finder**
 - Conceptualized and developed responsive platform leveraging *Python, Django, HTML, CSS, Bootstrap, Javascript, MySQL*, and *Android*, to perform partial face recognition for missing persons.
 - Collaborated with the National Crime Records Bureau, Ministry of Home Affairs, Delhi, Government of India, to launch the system nationwide, **reducing missing person recovery times significantly from months to days.** An MoU was signed with NCRB to formalize this partnership.
 - Managed and organized dataset of over 30,000 images, employing advanced Machine Learning Algorithms like Face Landmark Estimation, Deep CNN, and KD-Tree for efficient feature representation and matching.
 - Structured the workflow using UML diagrams, designed a robust database schema, and extended system capabilities to analyze images from CCTV footage, enhancing its effectiveness in locating missing people.
- **FoodGo**
 - Architected a Food Ordering and Pickup System using *Python, HTML, CSS, Bootstrap, Javascript, JDBC*, and *MySQL*, enabling menu management for restaurants, online ordering for customers, and data visualization for admin.
 - Integrated various services within the system, including onboarding new customers and restaurants, facilitating food ordering, cart management, and efficient order tracking.
- **WolfMedia Streaming Service**
 - Spearheaded the development of a database management system using *MySQL* and *JDBC* for song, artist, album, podcast, and episode data management.
 - Implemented maintenance, royalty generation, and reporting functionalities, to enhance data analysis capabilities
- **TrueJobs - Job Classifier**
 - Developed a tool using *Python, Numpy* and *Pandas* that uses classification models like K-nearest algorithms, Decision Trees, Logistic Regression, and Naive Bayes to classify the job posting as fake and legitimate with **94%** accuracy.
 - Visualized results of classification using *seaborn* and *matplotlib*.

LEADERSHIP

- **Maitri-Indian Graduate Student Organization NCSU: Digital Media Head** - Generate content for Social media.
- **PICTOREAL - PICT Annual Magazine: Joint Secretary, Event Manager** - Overseeing 100+ students, organized diverse events including social events like blood donation and fundraising campaigns, recreational events for seniors at old age homes, etc.
- **PICT CSI Student Branch: Design Head** - Directed the design team enhancing visual elements for workshops and marketing.