MAHARSH PATEL

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EDUCATION

University of Texas at Arlington	M.S. - Computer Science	Texas, USA	**Jan 2022 – Dec 2023**
University Of Mumbai	B. Eng. - Information Technology	Mumbai, India	**Jan 2015 – Dec 2019**

EMPLOYMENT

Programmer Analyst | Cognizant Technology Solution Ltd   **Nov 2019 - Nov 2021**
- Attained a sub-5% defect rate across 2015 project deliveries in 24 months, ensuring top-tier deliverables and client contentment.
- Trained and collaborated with 10 cross-departmental employees in Python, elevating data analysis efficiency by 45% for a BFS client.
- Utilized agile principles to foster constant client engagement and transparency, resulting in a 90% client retention rate through the tailored automation of systems for over 10 clients.

Robotic Process Automation Trainee | Robonomics AI   **Aug 2018 - Nov 2019**
- Streamlined automation for 10+ business processes, leading to a 40% defect decrease and marked improvement in process precision.
- Demonstrated mastery of UiPath through successful completion of over 4 training programs spanning introductory to advanced levels
- Published a pioneering research article detailing the creation and triumph of an innovative solution that synergizes machine learning and RPA technologies, enriching the automated email response systems domain.

INTERNSHIPS

Student Web Specialist | University of Texas at Arlington   **Jun 2023 – Dec 2023**
- Effectively utilized Sitecore to create, manage, and enhance over 50 webpages, ensuring they consistently met accessibility standards.

Front end Web Developer | Finance Lookup Advisors   **Jan 2018 - May 2018**
- Leveraged HTML, CSS, Bootstrap, and Materialize to create an engaging and user-friendly website showcasing a comprehensive range of financial policies and services for clients.

PROJECT EXPERIENCE

Genome Wide Association Study (GWAS)   **Mar 2023**
- Developed a robust GWAS pipeline in Python, using Pandas and SciPy for in-depth genetic dataset analysis.
- Created precise SNP contingency tables with numpy arrays and Pandas DataFrames for optimized data manipulation.
- Applied Fisher's exact test and Bonferroni correction to compute odds ratios and significance, visualizing insights with matplotlib.
- Utilized: Python, Pandas, SciPy, numpy, GWAS, SNP, Fisher's exact test, Bonferroni correction, Data Visualization (matplotlib)

Text Classification for News Categorization with Naïve Bayes   **Mar 2022**
- Engineered a custom Naive Bayes classifier using Python, achieving a 75% accuracy in classifying intricate datasets.
- Strengthened classifier with Laplace smoothing, reducing false positives and negatives by 10%.
- Utilized: Feature selection, Cross-validation, Python, Machine Learning Concepts (Naive Bayes algorithm, Laplace smoothing)

LEX based Chatbot   **Aug 2021**
- Achieved a 30% decrease in customer support response times through chatbot enhancements.
- Optimized AWS Lambda functions, reducing chatbot response times by up to 55%. This initiative led to enhanced chatbot performance and improved user satisfaction.
- Utilized: DynamoDB, Botkit

TECHNICAL SKILLS

- **Development**: Python, HTML5, CSS3, Bootstrap, Materialize, SQL
- **Database**: MySQL, MongoDB, PostgreSQL
- **Frameworks & Libraries:** Flask, PyTorch, TensorFlow, RASA, NLTK, Spacy, Numpy, Pandas
- **Project Management Tools:** JIRA, Confluence, Trello
- **Version Control**: Git (GitHub), Bitbucket
- **Others:** UiPath, Automation Anywhere, Docker, AWS, AWS LEX, Alexa Skills Kit

LEADERSHIP

Member	EXCEL Campus Activities	**Jan 2022 - Dec 2023**
Membership Director	EXCEL Campus Activities	**May 2022 - May 2023**
Site Leader	The Big Event	**Sep 2022,2023**
Chairperson	Indian Society for Technical Education	**Apr 2017- Sep 2018**

AWARDS

Outstanding Student Leader	NACA	**Nov 2022**
1ˢᵗ Winner - EssilorLuxottica Sponsored Challenge	HackDFW2022	**Oct 2022**

CERTIFICATION

- Docker Crash Course for busy DevOps and Developers (Udemy)
- Building Apps Using Amazon's Alexa and Lex (Udemy)
- Automation Anywhere Certified
- Advanced RPA Professional(v11)
- Deep Learning Prerequisites: The NumPy Stack in Python (Udemy)

PUBLICATIONS

- Titanic Survivor Prediction
- Image Classifier
- Naïve Bayes Classifier
- Fake job Classifier
- Customized Automated Email Response Bot