Abhinav Reddy Karra

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EDUCATION

University of Maryland Baltimore County   Baltimore County, MD
Master of Science in Computer Science; GPA: 3.75   *Jan. 2021 – (Expected) Dec. 2022*
Kakatiya Institute of Technology & Science   Warangal, India
Bachelor of Engineering in Electronics and Communication Engineering; GPA: 3.7   *Aug. 2013 – Aug. 2017*

PROGRAMMING SKILLS

Programming Languages: Python, C#, Java, VB.NET, .NET MVC, React, JavaScript, HTML, CSS
Design / Analysis: Data Structures and Algorithms, Object-Oriented Programming (OOP)
Database Technologies: Oracle PL/SQL, MySQL, PostgreSQL
Data Visualisation Tools: Metabase, Tableau
Dev Tools / Applications: TFS, Git

PROFESSIONAL EXPERIENCE

TATA Consultancy Services Pvt. Ltd.   Varanasi, India
Software Engineer, Healthcare Products & Platform   *Apr. 2018 - Dec. 2020*
- Developed and maintained a Hospital Management Application using .NET framework and PL/SQL
- Involved in all phases of the SDLC (Software Development Life Cycle) from analysis, design, development, testing, implementation and maintenance with timely delivery of the app features
- Designed and developed C#, VB.NET, JavaScript, HTML, CSS components using Object-Oriented Programming (OOP) which were critical to the 3-tier web application interacting with PL/SQL Database
- Improved application performance by 25% by fine-tuning stored procedures, SQL queries for efficient data retrieval
- Effectively made use of Functions, Indexes, Stored Procedures, Packages, Triggers, Materialized Views
- Generated reports, visualized data using Metabase, interpreted large and complex data sets using relational database, wrote complex queries using PostgreSQL
- Excellent communication skills with experience in onsite-offshore model interacting with clients and Onsite managers

Arihant AI   Ahmedabad, India
Software Intern   *Jul. 2017 - Jan. 2018*
- Worked with senior developers to review the problem report solution and implemented the solution
- Created database using MySQL, wrote several queries to extract required data from various sources
- Delivered assigned tasks involving data collection and filtering the data as per the client requirements

ACADEMIC PROJECTS

A Social Media Study on COVID-19 Long-Hauler Community
- Implemented data cleaning techniques to extract unstructured Facebook data into individual posts and comments
- Implemented NLP techniques for text pre-processing like Tokenization, use of Stop Words, Stemming, Lemmatization, POS tagging with pattern recognition to extract symptom related keywords from corpus data
- Implemented different feature extraction methods like Count vectors, TF-IDF (word level, n- gram level, char level)
- Performed semantic analysis, visualized the most discussed symptoms into a network graph and built word-tree
- Built Machine Learning models for Text Classification with an accuracy of 75 - 80%

Designing an Interactive Visualization Leveraging Interactions of Long-Hauler Communities on Twitter
- Implemented data cleaning techniques, feature extraction on twitter data consisting of 20k tweets on covid data
- Built word-tree, word-cloud on most discussed topics extracted using Latent Dirichlet Allocation (LDA) model
- Built an interactive visualizing tool for presenting social media data to the Long-hauler community using Dash

React E-Commerce Web App
- Developed E-commerce web app using React (redux-saga, thunk, hooks), Firebase for authentication, stripe for payment gateway, and deployed using the Heroku cloud platform

ACHIEVEMENTS

- Awarded with Technical Excellence Award for my contribution to the organization at TATA Consultancy Services