ARUN SREEKANTH BAYANAGARI

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EDUCATION

- ***Master's Degree in Computer Science - University of Texas, Arlington*** **Aug 2022 - Present**
  [Courses: *Design & Analysis of Algorithms*, *Data Analysis and Modelling techniques*, *Database Systems, Machine learning, Data Mining, Software Testing, Artificial Intelligence, Web Data Management*]
- ***Bachelor's Degree in Electronics and Communication Engineering – J.N.T.U Anantapur, India*** **May 2018**

SKILLS

Programming Languages	:	Python (NumPy, Pandas, Weka, Scikit-learn), C, C++, PowerShell, Java, C#
Web technologies	:	HTML5, CSS, JavaScript, Bootstrap, PHP, React, NodeJS
Cloud Technologies	:	Amazon Web Services (AWS), Microsoft Azure , Google Cloud Platform(GCP)
Database Technologies	:	SQL, MySQL
Software's	:	Visual studio, Anaconda, Eclipse, Oracle, Docker
Version controllers	:	GIT
Operating Systems	:	Windows, Linux, iOS, Android, macOS

WORK EXPERIENCE

Senior Azure Cloud Engineer*, *Tata Consulting Services Pvt. Ltd., India **Mar 2022 – Jul 2022**

- Assisted with the migration of a legacy application to a cloud-based architecture, resulting in a significant decrease in response time and an increase in user satisfaction.
- Developed Automation scripts for cloud services, resulting in a **30%** reduction in manual tasks and a **20%** increase in task completion speed.

Software and Cloud Engineer, Wipro Technologies Pvt. Ltd., India **Aug 2018 – Dec 2021**

- A **25%** increase in system performance and a **15%** decrease in Infrastructure expenses were achieved by configuring Cloud (AWS, Azure, and GCP) services, including VPC, EC2, and Storage Buckets.
- Implemented security rules and technologies to safeguard cloud environments, resulting in a **35%** reduction in vulnerabilities and a **30%** improvement in overall system security.
- Administered key operations such as troubleshooting analysis, identifying system failure, and overseeing network problems leading to an increase in overall performance.
- Introduced security posture across all of Wipro Network Entities by using an automated patch management solution which reduced manual updating delays by **50%.**

TECHNICAL PROJECTS

Performance Evaluation Tool for MSC- CS, ***University of Texas at Arlington*** **GitHub Link**
Tech Stack: HTML, CSS, JavaScript, React JS, Node JS, PHP, Bootstrap, AWS, MySQL

- Developed a comprehensive web-based system to facilitate performance measurement and assessment for an MSC Academic Program.
- Created a user-friendly interface allowing students to access detailed course information, view exam results, and gather program insights.
- Implemented role-based access controls, enabling administrators to manage program elements and customize website settings.

Naïve Bayesian Classifier used for Email Spam Detection, ***University of Texas at Arlington*** **GitHub Link**
Tech Stack: Python, NumPy, Pandas, Jupyter

- Built a Naive Bayesian model that processes large amounts of data and detects the spam mail from the data which are classified as spam or not spam mails. Trained the model and achieved an accuracy of **94%** on a test of **1000** samples.

BMTC Connect – For Efficient Transit, ***University of Texas at Arlington*** **GitHub Link**
Tech Stack: Python, Oracle Database, MySQL

- Engineered a full-scale urban transportation system database using Oracle RDBMS, encompassing initial requirement gathering, Entity-Relationship Model design, translation to relations, and progressive normalization to Boyce-Codd Normal Form.
- Executed seamless integration of relational design into Oracle tables, effectively creating scripts for Data Definition Language, Data Manipulation Language, drop operations, and adeptly managing Ad-hoc SQL Queries.

Text Mining, Classification, Clustering and Normalization of Large Data set, ***University of Texas at Arlington*** **GitHub Link**
Tech Stack: Python, NumPy, Pandas, Scikit-Learn, Matlabplotlib, Jupyter

- Implemented Data Mining Algorithms for classification and accurately predict the target class for each of the data files.
- Count Vectorizer approach was used to correctly classify the data.

On-Prem to Cloud Migration, ***Wipro Technologies Pvt. Ltd., India***

- Spearheaded the meticulous collection of requirements for an application migration project, ensuring a streamlined transition to a cloud environment, resulting in a 30% reduction in infrastructure costs and increased scalability.
- Orchestrated the seamless migration of an end-to-end application, skillfully deploying a resilient Hub/Spoke Architecture, reducing downtime by 50% and improving overall system performance by 40%.

CERTIFICATION

- AWS Certified Cloud Practitioner