Mukul Anand Mohan

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EDUCATION

Master of Science in Business analytics   *Aug 2021 - May 2023*
University of Texas at Dallas
Course Work: Data warehousing, Advance statistics, Advance Database., programming

Bachelor of Engineering in Computer Science and Engineering (B.E. CSE)   *May 2014 - May 2018*
 Anna University, Chennai, India
Course Work: Data Structures & Algorithms, Parallel & Distributed Computing, Machine Learning, Cloud Computing, Soft. Security.

TECHNICAL SKILLS AND CERTIFICATIONS

Programming & Databases	Python, C++, Java, Swift, MySQL, Oracle Database, PostgreSQL,NoSQL R
Web-Development &analytics tools	HTML, CSS, Java Script, Bootstrap, Angular JS, Node JS,Power BI ,Tableau,Excel
Frameworks	Keras, PyTorch, Tensorflow, Pandas, NumPy, SciPy, OpenCV, Scikit-Learn, Matplotlib, NLP
OS & Cloud/Version Control	Linux, Windows, Mac OS, Git, Google Cloud,AWS,Azure

Certifications   ITIL foundation, AWS (associate), Networking, Developer and Full Stack Developer, certified MS excel Professional, Certified Product management professional,

WORK EXPERIENCE

CGI Chennai, India (*Associate system Engineer -Data and product***)**   **AUG *2020 – MAR 2021***
Build scalable databases capable of ETL processes using SQL and Spark   .Evaluate the workflow and increase the efficiency of data pipelines that process over 30 TB of data daily and utilize MongoDB to create NoSQL DB and designing and managing the product

Mphasis Limited, Chennai, TamilNādu (Technical support)   **Oct 2019 – May 2020**
Co-developed and supported the SQL server DB system to maximize performance Assisted senior level data engineers in designing ETL process including SSIS and other packages.

Intech System Private Limited, Chennai TamilNadu (*Graduate Engineer Trainee (L1 –Developer)*   **May 2018 – Oct 2019**
Trained and worked as GET in application development using languages like C and C++ Expertise   in   DB   (NOSQL)   and   cloud platforms such as AWS and MS Azure. Exposure to different networks like palo alto.

IGenuine soft solutions, Chennai, India (*Full Stack Developer-Intern***)**   *April 2017 – April 2018*
Developed a website for a client using Ruby on Rails, HTML5, CSS and JavaScript as the Front-end and PostgreSQL as the Backend Database. Devised advanced search recommender systems for the ease of access. Trained and developed UG project and published in IEEE   Exposure in big data, designing of data pipeline architecture and project management

RESEARCH AND PROJECT EXPERIENCE

Optimizing Infection Notification in Contact Tracing, AU   **Jan 2015- NOV 2015**
Researched on leveraging graph databases for high accuracy and using Convolutional neural networks to classify the movement of a person, resulting in increased efficiency and reduction in mobile battery consumption. Additionally, the prediction of potentially infected people is trained using Machine Learning models.

HFSP bringing size-based scheduling in HADOOP, AU   **April 2017 – Jan2018**
Completed Big Data project which has been published in IEEE journal and awarded as best project

DART Transportation system and Item-based recommender system   **AUG 2021-DEC 2021**
 Developed business rules, ERD and normalization for DART transportation management system for better performance and cost effective. Deployed a Item Recommendation System based on Memory based collaborative filtering algorithm by cosine similarity and Singular Value Decomposition. Recommended Movies based on User-item Filtering and Item-Item Filtering and also used RMSE