SUBHASREE VADUKOOT

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Skills Profile

- **Programming**: Java, Python, HTML, CSS, R, JavaScript(basic)
- **Technologies**: Big Data, Machine Learning,
- **Current Learning Interests**: React, Vue, TypeScript, Accessibility in Web
- **Tools**: Visual Studio Code, Toad, Weka, RStudio, Jupyter Notebook, Tableau
- **Database**: MySQL, Oracle
- **Machine Learning, Data Mining, Data Visualization**
- **Mathematical Software**: Scilab, Maxima
- Experience of working in **Agile** and **Scrum** teams using **Jira, BitBucket, Git**
- **Domain**: Knowledge of Regulatory Reporting Environment, APA (ongoing)

Education

2019-2020 **Master of Science in Big Data Management and Analytics, Griffith College Dublin.**
Key Subjects: Big Data Analytics, Big Data Management, Cloud Computing, Applied Data Analytics, Information Retrieval and Web Search, Concurrent and Parallel Programming.
Results: **Best Academic Achievement Award for scoring the highest grades in the course**
1:1 First Class Honours

2016-2019 **Bachelor of Science in Computer Science, Mathematics, Electronics, CHRIST (Deemed to be) University, Bangalore, India**
Key Subjects: Database Management Systems and Software Engineering, Data Structures and Operating Systems, Computer Networks, Object Oriented Programming using Java, Web Development, Linear Algebra, Complex Analysis, Differential Calculus, Embedded Systems, Verilog and FPGA based design.
Results: **University First Rank with 93.8%, CGPA– 9.85 on a 10 Point Scale (1.1 grade)**
Semester 1:90.1% Semester 2: 91.1% Semester 3: 91.2%
Semester 4:93.2% Semester 5:93.8% Semester 6: 93.4%

2014-2016 **Higher Secondary level, Vivekodayam Higher Secondary School, Kerala, India**
Results: **98%**

2013-2014 **Secondary level, J.M.J.E.M.H.S.S School, Kerala, India**
Results: **99%**

Work Experience

Technology Analyst, Bank of America Merrill Lynch, Dublin, Ireland **Jul 2020- Present**

- Designing and maintaining Technology Applications built using Oracle, Java and AngularJS for critical regulatory reporting purposes.
- Collaborating with software testers to create efficient test plans and scripts while working together in an Agile team
- Gathering and translating client requirements to technical design specifications
- Writing clean, robust code adhering to the standards and using version control to collaborate with other developers
- Acting as a buddy to the Interns in the team by providing Knowledge Transfer and overall support.

Certifications and Online Learning

- IBM Data Science Specialization - Coursera
- Angular, React, Risk Management - Plural Sight
- IntelliJ IDEA Community Edition Essential Training, Oracle Database 19c: PL/SQL – LinkedIn Learning
- Data Analysis using SPSS

Seminars/ Workshops

- Participated as a delegate in the National Seminar on “Internet of Things - IoT”.
- Participated in the MATLAB Workshop conducted by Technologic Global Pvt. Ltd, India

Projects

Climate Conversations and Visualizations - Web Application with Machine Learning (Link)

- Developed as an approach to tackle the climate crisis by sentiment analysis and data visualization
- Compared the effectiveness of machine learning algorithms to analyze the sentiments of the public relating to man-made climate change by using Tweets through an API.
- Developed a platform for climate data related dashboards where users can interact with other user generated contents using Python, MongoDB Django, Tableau, CanvasJs charts and, Machine Learning Models like SVM, Logistic Regression, Naïve Bayes and Bagging, boosting to improve performance.

POSTIt - Web Application with Google App Engine (Link)

- POSTIt' is a PaaS (Platform as a Service) application that is developed using Google App Engine with Python version 2.7, HTML, CSS, BootStrap. The application serves as a simple version of social media network for multiple users.
- Developed by taking advantage of Blobstore of Google App Engine which allows the storage of binary large objects.
- Timeline that shows maximum 50 posts with option for users to comment, upload profile pictures, go to individual profiles to see the posts etc.

Tasked - Web Application with Google App Engine (Link)

- Serves as a task management system for multiple users. This application provides users with login-logout and task creation services. Users can add task boards, which are collection of tasks and users to the database and modify details of existing task boards.
- Implemented using Python, Google App Engine, BootStrap, HTML and CSS taking advantage of parent-child relationships, KeyProperties of Google App Engine. Retrieval using keys is much faster than access using queries. Users can also invite other users to see and interact with boards they have created. The functionality to delete the entire board is available only for the created users. Users can also edit and delete tasks and mark them as complete.
- Retrieved using keys and not queries to the allow for direct key access and fast retrieval

Classification, Apriori Association Rule Mining and Clustering with Diabetes 130-US hospitals for years 1999-2008 Data Set (Link)

- Performed pre-processing- identifying outliers and missing values, feature selection, normalization, feature encoding etc to perform classification, association rule mining and clustering using Weka on the Diabetes dataset and produced several insights.
- Compared the performance of different algorithms with clear attributes like confidence, Manhattan distance, cluster visualization etc

Blissful Cell- Website for mindfulness (Link)

- Blissful Cell is a website that aims to help people with anxiety and stress. The website is designed with graphics, games and other activities that are proven to increase mental well-being
- Implemented using technology stack- JavaScript, HTML, CSS, Bootstrap, JQuery, PHP, SQL

Information Retrieval and Web Search Scripts(Link)

- Developed scripts using Java to calculate Precision, Recall, Inverted Index, TF-IDF matrix and other measurements with high speed
- Developed script that generate a probfuse model from the training data

Volunteering

- Volunteering as a mentor for CoderDojo Ireland
- Volunteered as a facilitator for Wikipedia Education Programme (WEP) in the capacity of Campus Ambassador.
- Volunteered in Techleons 2018 organised by Department of Computer Science, CHRIST (Deemed to be) University, Bengaluru, India