SUBHASREE VADUKOOT

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Skills Profile

- **Programming**: Java, Python, HTML5, CSS3, R, JavaScript, React JS, Redux
- **Technologies and Environments**: Big Data, Machine Learning, RESTful APIs, ES6, Django, XML, Node JS, GitHub, NPM, Netlify
- **Current Learning Interests**: Accessibility in Web, UI/UX Design, Express JS
- **Tools**: Visual Studio Code, Toad, Weka, RStudio, Jupyter Notebook, Tableau, IntelliJ, Eclipse, Chrome Dev Tools

- **Data Structures and Algorithms**
- **Database**: MySQL, Oracle, MongoDB
- **Data Mining, Data Visualization**
- **Mathematical Software**: Scilab, Maxima
- Experience of working in **Agile and Scrum** teams using **Jira, Bitbucket, Confluence, Jenkins, Git** and other tools.
- **Responsive Web Design**
- Software Development Life Cycle and best practices.

Work Experience

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

- Designing and maintaining Technology Applications built using Oracle, Java and AngularJS for critical regulatory reporting purposes, in a Scrum team with biweekly sprints.
- Collaborating with QA team to create efficient test plans and scripts while working together in an Agile team and participating in code review using Bitbucket, Git and Agile tools.
- Gathering and translating requirements to technical design specifications keeping scalability and performance in mind.
- Writing clean, robust and quality code adhering to the standards and using version control to collaborate with other developers thereby ensuring smooth deployment and release.
- Acting as a buddy to the Interns in the team by providing Knowledge Transfer and overall support.
- Developed and deployed crucial scripts to enable users to check whether SLA times are met for critical jobs.

Certifications and Online Learning

- IBM Data Science Specialization
- Angular Foundations, React JS, TypeScript Essential Training, Risk Management
- IntelliJ IDEA Community Edition Essential Training, Oracle Database 19c: PL/SQL - LinkedIn Learning
- Foundations of User Experience (UX) Design - Google Certification Program
- API and Microservices Certification
- Front End Development Libraries Certification

Education

2019-2020	**Master of Science in Big Data Management and Analytics, Griffith College Dublin.** Key Subjects: Cloud Computing, Big Data Analytics, Big Data Management, Research Methods, Applied Data Analytics, Information Retrieval and Web Search, Concurrent and Parallel Programming with Java. Results: Awarded **Best Academic Achievement Award, 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, Algorithms, Computer Networks, Computer Architecture, Object Oriented Programming using Java, Web Development, Linear Algebra, Complex Analysis, Differential Calculus, Embedded Systems, Microprocessors and Microcontrollers. Results: **University First Rank with 93.8%, CGPA– 9.85 on a 10 Point Scale (1.1 Degree)**
2014-2016	**Higher Secondary level, Vivekodayam Higher Secondary School, Kerala, India** Results: **98%**

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](#))

- Individually developed an approach to tackle the climate crisis by sentiment analysis and data visualization using Python and Tweepy API.
- Compared the effectiveness of machine learning algorithms to analyze the sentiments of the public relating to man-made climate change by using publicly available Tweets.
- 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.
- Received appreciation for the implementation of the project by the research supervisors and invigilators.

POSTIt - Web Application with Google App Engine ([Link](#))

- Developed a Platform as a Service application that is scalable using Google App Engine with Python, Django HTML, CSS, BootStrap. The application serves as a simple version of social media network for multiple users and utilizes efficient data structures to improve performance.
- Developed by leveraging Blobstore of Google App Engine which allows the storage of binary large objects.
- Implemented a 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](#))

- Created a task management system (PaaS) for multiple users. This application provides users with login-logout and task creation services and has CRUD functionalities. 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 leveraging parent-child relationships, KeyProperties of Google App Engine. 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 to ensure scalability.

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 with accurate results.
- Compared the performance of different algorithms with attributes like confidence, Manhattan distance, cluster visualization etc and identified patterns.

Blissful Cell- Website for mindfulness ([Link](#))

- Developed 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

Shopper – E-commerce Application with MERN Stack([Link](#))

- Developed an application with all the essential functionalities of an e-commerce site and CRUD operations. The technology stack used is React JS, Redux, React Router, MongoDB, Node JS, Express JS, React BootStrap, CSS
- Implemented using RESTful APIs, user authentication with JWT tokens, payment endpoints and password encryption.

Volunteering

- Volunteering as a Website Developer at Dublin City Volunteer Centre to reduce funeral poverty in Ireland.
- Volunteering as a Mentor at CoderDojo, Dublin for a community centre.
- Volunteering at Women in Technology and Operations (WIT&O), Bank of America as an early pipeline committee member to empower women and children, and to introduce young girls to STEM.