**Abishek Varadarajan**

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**PROFESSIONAL EXPERIENCE**

**ePROMIS Solutions LLC, Project Lead - ERP Implementation, Dubai, UAE** (Jan 2014 – May 2017)

* Performed customized ERP Implementation (Full suite) for established clients in multiple industries
* Worked with modules including Finance and accounting, Procurement, Sales, HR & Payroll, Inventory, Asset Management, Property Management, Project Management, Production, Maintenance, and Poultry system
* Performed gap and requirement analysis for enhancing the business processes
* Discussed and prepared Solution Design Document (SDD)
* Developed and tested user interfaces
* Performed ETL operations onto SQL database
* Programmed database queries and procedures
* Generated advanced data reports using MS SQL Server
* Conducted end user training
* Managed project and tracked compliance with client requirements on daily basis
* Provided post-implementation support for the ERP system

**University of Maryland Baltimore County, Web Technician** (Sept 2017 – Present)

* Managing website content and design optimization for the Department of Psychology
* Creating web forms for student profiling and evaluation
* Maintaining master data of student, faculty, and alumni information
* Retrieving student information from data warehouse and creating reports using Microsoft Excel

**EDUCATION**

**University of Maryland Baltimore County, MD, USA**  
MS in Information Systems (Expected May 2019)

**Image College of Arts Animation & Technology, Chennai, India**

Post Graduation Diploma in Game Development (2013)

**SRM University, Chennai, India**

BS in Information Technology (2012)

**SKILLS**

**Database Management**: MS-SQL Server, Oracle DB, MySQL

**Programming Languages**: Python, R, C++, Java, HTML, CSS, XML, JSON, JavaScript, PHP, Visual Basic

**Software skills**: Tableau, WEKA, PowerBuilder 12.5, ArcGIS, Microsoft Office, GitHub, Visual Studio

**Machine Learning**: Naive Bayes, KNN, SVM, Regression

**Operating Systems**: Microsoft Windows, Mac OS, Linux

**Enterprise Resource Planning (ERP) System**: ePROMIS

**SELECTED PROJECTS**

Data Analysis on Medicaid Health Care dataset, UMBC (Sept 2018 - Dec 2018)

* Used a custom Data Quality Toolkit and R to analyze and perform data cleaning steps on medical records
* Preprocessed and analysed data using R and Excel for prediction of patient length of stay at hospitals using various attributes like age, location, income, etc.
* Performed Model Selection methods like Forward and Backward Stepwise Selection, Ridge Regression and LASSO(Least Absolute Shrinkage and Selection Operator) to optimize variable selection for prediction
* Implemented several statistical learning methods like Linear Regression, Multiple Linear Regression, Logistic Regression, K-Nearest Neighbours, Linear Discriminant Analysis and Resampling, to create a prediction model

Data analysis for identification of Gerrymandering, UMBC (Jan – Jun 2018)

* Collected election and census data from Census.gov and Kaggle
* Used ArcGIS to extract area type(Rural/Urban, Zip Code, Districts and States) from shapefiles
* Pre-processed and combined all available data to create a master dataset for analysis and prediction
* Used Python to visualize various factors of the dataset to find patterns of gerrymandering
* Used Python to build regression models to predict future occurrence of gerrymandering

Database design and development for an AirBNB-like home rental system, UMBC (Sep – Dec 2017)

* Utilized Oracle to design the architecture for user and property registration data
* Developed and implemented Oracle PL/SQL Procedures for features like user authentication, property creation and maintenance, search and filters, reservation, booking and cancellation, payment, invoice generation, review and reports
* Debugged and troubleshooted SQL code with breakpoints

Research Papers, UMBC (Sep – Dec 2017)

* Wrote a research paper for creating a decision-making model for Healthy Food/ Restaurant Recommendation System based on personalized dietary requirements such as health conditions (Diabetes, blood pressure, allergies, fitness) and preferences. The system approach was designed using AHP (Analytic Hierarchy Process - A multi-criteria analytical technique used to find the best solution from a given list of alternatives)
* Wrote a research paper on Internet of Things describing the architecture of a smart home network and the technologies required

**RELEVANT COURSEWORK**

Data Analytics, Data Mining, Distributed Systems, Advanced Database Projects, Decision Making Support Systems, Project and Systems Engineering Management, Systems Engineering Principles, System Analysis and Design, Foundation of Information Systems

**CERTIFICATION**

* Lean Six Sigma White Belt Certified Oct 2018
* Project Management Essentials Certified Oct 2018
* Tableau Expected Apr 2019
* Machine Learning A-Z™: Hands-On Python & R In Data Science Expected May 2019