Harsh Shah

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EDUCATION

MSc. in Business Intelligence Systems and Data Mining, De Montfort University | 86%   Expected Graduation: Jan 2021
Relevant Coursework: Data Warehouse and OLAP, Data Mining, Business Intelligence Systems, Statistical analysis and modelling, SAS Programming, Data Visualisation, Management Information Systems.

Bachelor of Engineering in Computer Science, K. J. Somaiya College of Engineering | GPA 7.56/10   Aug 2013 – May 2017
Relevant Coursework: Big Data Analytics, Artificial Intelligence, Data Warehouse and Mining, Cloud Computing, Object-Oriented Programming, Advanced Algorithms, Human-Machine Interaction, Database Management.

TECHNICAL SKILLS

Languages:	Python, R, SAS, Java
Web development technologies:	HTML, CSS, JavaScript, AJAX, JSON, JQuery
Databases:	MySQL, SQL, MongoDB
Data visualisation tools:	Power BI, Advanced Excel, SAS BI Dashboard, Google Charts
Data mining tools:	SAS Enterprise Miner
Additional tools and technologies:	JIRA, Confluence, HP – ALM, Selenium, TestShell, Hadoop, GitHub, XML, MS Office, Internet of Things (IoT), Machine Learning, Oracle WCS, Eloqua

PROFESSIONAL EXPERIENCE

Student Learning and Teaching Consultant | De Montfort University | Leicester   Nov 2019 – May 2020
- Conducted inquisitive analysis on the factors influencing student's attendance by testing the hypothesis.
- Co-ordinated with 2 researchers and leveraged the techniques of statistical modelling using SAS, Excel and Power BI.

Assistant Manager | Vodafone Shared Services India | Pune   Aug 2017 – Aug 2019
- Engineered 2 reporting tools contributing to KPI reports saving 50% time and efforts of the management using MySQL.
- Headed a team of 3 to automate 73% test cases and reduce execution time by 45% using Selenium.
- Trained 12 colleagues in 4 projects to deliver automation and data critical projects through dedicated support.
- Liaised with internal and external partners to deliver personalisation, AB testing and AI-powered analytics solutions using Google Analytics, and Adobe Analytics.
- Earned 'Top Employee of the year' title for handling 3 projects with no impact on business as usual in agile environment.
- Titled as 'Subject-Matter Expert' by the Manager for supporting teams to resolve technical issues through in-depth analysis.

Software Developer Intern | Yoloperks | Mumbai   Dec 2015 – Jan 2016
- Fabricated client dashboards to display key performance metrics using Google Charts API, JSON, SQL, POST requests using PHP.
- Leveraged use of AJAX technology to send asynchronous requests to improve load time and performance of the webpage.

PROJECTS (https://github.com/harsh95kj)

Sentiment Analysis to identify trends in stock market | The Sparks Foundation
- Modelled a sentiment analysis dataset on news headlines to explain the peaks and troughs across BSE SENSEX stocks spanning over the period of 20 years.
- Performed data wrangling for easy access and analysis of hybrid model.

Spatial Panel Data analysis to study crime and socioeconomic factors across boroughs of London | De Montfort University
- Devised spatial fixed effects and random effects on panel data to overcome bias caused due to heteroscedasticity, autocorrelation and cross-sectional dependency.
- Adapted the concept of data cleaning, visualisation, transformation, modification & analysis and extract-transform-load utilising SAS, Python, and Power BI technologies.
- Working towards publishing the academic paper.

Cardiovascular disease risk-factors analysis model | De Montfort University
- Formulated data mining techniques using Sample, Explore, Modify, Model and Assess (SEMMA) methodology.
- Deployed logistic regression, decision tree, neural networks and random forest model to critically identify the risk factors contributing to Cardiovascular disease by presenting the best fit model using SAS Enterprise Miner.

Data warehouse and BI dashboards for East Midlands companies | De Montfort University

- Architected a data warehouse to answer complex business queries by applying the concepts of extract-transform-load and star schema model using SQL.
- Executed forecasting, optimisation and simulation using Advanced Excel techniques along with BI web reports and dashboards creation.

Android-Powered Autonomous Car Robot | K. J. Somaiya College of Engineering
- Engineered an Arduino bot with ultrasonic sensor-based detection and Bluetooth-Android control via a mobile.
- Implemented the concepts of Google maps API, JAVA OOP, computer vision using OpenCV and Arduino in C.
- Anchored the project group for undergraduate thesis and published a technical paper in IJESC with our findings.

ADDITIONAL DETAILS / INTERESTS

- Students Representative (2019-20) and Course Representative (2019-20) at De Montfort University, Leicester.
- Sports Secretary (2015-16) and Literary Secretary (2016-17) at VMKB Hostel, India.
- Volunteered for Leicester City Council for the COVID-19 test program.
- Volunteered at the Modern Slavery Act event.
- Speak English, Hindi, Gujarati, Marathi fluently. Completed German A1 level from Goethe Institute.
- Interests are sports, exploring cultures, solving quizzes, graphic designing and travelling.