

ENGINEERING AND QUALITY TECHNICIAN

Career Overview

A highly experienced skilled graduate with Analytics degree with a very good experience in SAS, Web scraping, SQL, Predictive modelling and data visualization. Excellent ability in identifying data requirements for analysis, data cleaning, munging and model building; Ensures the organization uses it effectively to reach profit and growth objectives. Comfortable with data handling, modeling, and coding, and have an appreciation of what makes sense from a business standpoint. More than six years of experience working as a researcher, data analyst, and environmental science and Technology Instructor. Experience in SQL, data warehousing, maintaining, securing and stabilizing data layers and testing to identify data and product defects introduced in the system. Customer segmentation, product positioning and mapping and conjoint analysis Modelling: Design and implement statistical / predictive models and cutting edge algorithms utilizing diverse sources of data to predict Diversified experience with Engineering, Manufacturing, Retailing, Higher Education and IT /Data related companies Fascinated by learning cutting edge technologies, such as; Data Mining and Machine Learning Handled a team of 4 during my 3 years of Tech experience and managed more than 200 students and effectively evaluated the performance of each student and utilize assessment methods to judge overall progress during my teaching experience.

Qualifications

- Ability to identify uncovered information from hidden data and convert to a story and communicate effectively through visualization
- Modelling using R, SAS, Python using Pandas
- Web scraping using Beautiful soup in Python
- Databases like Oracle and Microsoft SQL
- Experience in ASP.NET 4.5, C#, and HTML,
- Statistical software like JMP, SPSS, GIS
- Visualization software like Tableau, ggplot (R)
- Experience in database design for data warehousing environments.
- Modelling using Random Forests, Decision Trees, Boosted Trees, etc.
- Modelling using shrinkage methods, including Ridge, LASSO and Elastic Net regression models.
- Dimension Reduction using PCA
- Outlier analysis, Linear Regression, Clustering techniques, logistic regression

Work Experience

01/2013 to 01/2016

Engineering and Quality Technician Company Name i¼ City , State

- Planned, performed and conducted semiconductor production process development and engineering designs as well as managed small projects and prepared statements and monitored project schedules.
- Identified product defects introduced in data warehouse by performing quality tests using SQL and JMP.
- Co-ordinated with scientists, engineers, manager, analysts to understand the impacts due to defects and provided valuable information for product shipping and customer satisfaction.
- Managed multiple tasks and accomplished goals efficiently and per schedule with a strong work performance to meet the goals of the department.
- Monitored and adjusted semiconductor production process or/and equipment for improving quality and productivity and achieved a 10% higher performance rate for the fiscal year of 2014.
- Provided technical support in developing, building and testing prototypes, new products, processes and procedures and provided training and advice to other Engineering technicians.
- Applied database management and data analysis methods which helped enhancing production efficiency and reduced costs for the department by 5% in every quarter.

01/2007 to 01/2012

Company Name

- Lecturer in Environmental Science and Technology Effectively engaged in course curriculum development, taught courses and engaged in research projects and community services on the areas of Statistics, GIS and natural resource management.
- Developed course material that support the goal of the course including design of curriculum and schedule of instructions, provided student with guidance in regards to their grades and progress in the course work and elected as best instructor of the College in 2008.
- Established a GIS laboratory facility with other staff members, provided technical support for environmental remediation projects and for legal actions.
- Used SQL and SPSS for managing student database and for analysis of data.

01/2004 to 01/2006

Company Name

- Assistant Lecturer in Natural resource management Assisted in teaching, researching and developing methods which helps in improving both the university and students' performance.
- Highly engaged in curricular and extra-curricular activities and community services.
- Established and coordinated nature and environmental protection club in the university.
- Developed teaching methodologies and techniques that added to the knowledge base and understanding of resource management by preparing teaching materials, handouts and laboratory manuals.
- Engaged in major research projects of resources management which was undertaken in collaboration with Universities, NGOs, and engineering consulting companies.

- Served as lead of the college's audiovisual center and arranged workshops, meetings and documented academic resources.

Education and Training

May 2017

Master of Science : Analytics University of New Hampshire USA Analytics 4.0/4.0 Currently working on a project on mapping and clustering of student success using clustering, data mining and machine learning predictive modeling techniques for Granite State College (GSC). The objective of this project is identifying factors which will help students become successful in their academic achievements and finding ways to improve students' retention rates. *Working on UNH hockey team project with a team of 6 people for predicting players' performance. *Undertaken a summer project on "Mapping and clustering of Chicago and Seattle city Crime" and we could successfully classify categories with a 90% accuracy. Yitayew, Anteneh, Workineh

GRADUATE STUDENT IN $\frac{1}{4}$ City , State

April 2010

Master of Science : Environmental Science and Technology UNESCO-IHE $\frac{1}{4}$ City The Netherlands Environmental Science and Technology

July 2004

Bachelor of Science : Resource Management Debub University Ethiopia Resource Management

Skills

ASP.NET 4.5, academic, Clustering, consulting, curriculum development, customer satisfaction, data analysis, data mining, data warehouse, Databases, database, database design, database management, data warehousing, environmental protection, Environmental Science, GIS, HTML, instructor, Lecturer, legal, machine learning, managing, materials, meetings, C#, Microsoft SQL, modeling, Natural, Oracle, process development and engineering, processes, progress, Python, quality, researching, research, SAS, shipping, SPSS, SQL, Statistics, Tableau, teaching, technical support, workshops