

Abu Saleh Muhammad Pushon

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OBJECTIVE

To contribute in however small a way to make the world a better place for all the living beings who are sharing it with us through my knowledge, skills, curiosity, critical thinking & problem solving ability, gratitude, empathy, morality, honesty, and hard work.

EDUCATION

Petroleum & Mining Engineering, B.Sc. (Engg.) Sep 2012
Shahjalal University of Science and Technology (SUST) – Sylhet, Bangladesh
CGPA: 3.42 (On a scale of 4.00)
Thesis: Calculation of Radius of Investigation from Pressure Transient Analysis to Estimate the Drainage Volume of Well KTL-02 in Kailashtila Gas Field
Supervisor: Professor Mohammad Shahedul Hossain
Courses: {Introduction to Programming Language: A+, Engineering Statistics: A+, Vector & Numerical Analysis: A, Integral Calculus & Differential Equation: A-}

EMPLOYMENT

Self-Employed Mar 2014 – Present

- Working on a team project on computer vision and machine learning
- Working as a freelance data analyst
- Tutoring students of class 6-12

Deployment Executive – mPower Social Enterprises Ltd. Feb 2012 – Jan 2014

- Ran SQL queries to perform data analysis and visualization in few projects
- Worked with Java code in five projects in high pressure situations
- Reduced operational and server maintenance costs by about fifty percent by undertaking the role of server and network administrator
- Initiated the process of ensuring system and data security by taking regular backup of the database and application of more than 25 projects
- Helped developers with troubleshooting the bugs by finding the particular reasons behind them exploring the relevant log file(s) in the server
- Learned and implemented a faster and easier alternative method to develop Android survey forms which eliminates writing hardcode in XML
- Prepared Software Requirement Specifications (SRS) and User Manuals
- Developed and managed a Google Site of our products for internal purposes

PROFESSIONAL INTERESTS

- Large-Scale Data Analysis and Visualization
- Artificial Intelligence & Machine Learning
- Computer Vision & Natural Language Processing

ONLINE COURSES

- **Completed:** Intro to Data Science ([Udacity](#)), Machine Learning ([Coursera](#)), Intro to Descriptive Statistics ([Udacity](#)), Intro to Inferential Statistics ([Udacity](#)), Foundation of Data Structures ([EdX](#)), Intro to Artificial Intelligence ([Udacity](#)), Programming Foundation with Python ([Udacity](#))
- **Ongoing:** Learning from Data ([California Institute of Technology](#)), Natural Language Processing ([Coursera](#)), Data Science ([Harvard University](#)), Intro to Hadoop and MapReduce ([Udacity](#)), The Science of Happiness ([EdX](#))

RELEVANT PROJECTS COMPLETED

- Analyzed data from The National Survey of Family Growth (NSFG) to find the answers of many insightful/interesting questions on family life, marriage and divorce, pregnancy, infertility, use of contraception, and men's and women's health in the United States
- Analyzed passengers' data of the Titanic ship, for making a model to predict who will survive the accident; using different algorithms such as Random Forest, ANN, etc.
- Applied collaborative filtering algorithm to build a movie recommendation application
- Analyzed subway riding and weather data of New York City to develop a model to make a better subway transportation system
- Analyzed *Speed Dating* data to find the dominant characteristics of male and female during selecting any potential partner
- Implemented Multi-class Logistic Regression and Artificial Neural Networks (ANN) to recognize handwritten digits (from 0 to 9)
- Used Support Vector Machines (SVMs) to build a spam classifier
- Developed few fun/adventure/puzzle games using Python 2.7
- Applied the K-means clustering algorithm to compress an image
- Implemented Principal Component Analysis (PCA) for extracting dominating features to find a low-dimensional representation of provided 5000 face images
- Built a model to predict housing prices from data on recent houses sold with different features such as size of house, number of bedrooms, age of house, etc.

TECHNICAL SKILLS

- **Data Science:** Python, Matlab, R, Pandas, NumPy, SciPy, scikit-learn, Matplotlib, NLTK, ggplot, Hadoop, Microsoft Azure Machine Learning Studio, Jupyter/IPython Notebook
- **Computer Skills:** Programming Languages (Python, Java, C), Operating Systems (Linux, Windows), Data Structures and Algorithms, Android Application Development, Server and Database Administration, Networking, Unix Shell, MySQL, XML, etc.
- **Other Tools:** Sublime Text, NetBeans, Octave, Git, Tableau Software, openCV, FreeCAD, MySQL Workbench, Eclipse Simulator, F.A.S.T. WellTest™, VMware vSphere Hypervisor, Android Studio, Monit, Balsamiq, Winbox, Microsoft Office Applications, etc.

INVOLVEMENT

Fab Lab – Dhaka

Sep 2015 – Present

Founding Coordinator

- Working on a project related to sustainable energy
- Organize workshops and maker-meets to share innovative projects with the mass people
- Empower individuals by technology to create smart devices for themselves

KIN, Volunteer Organization – SUST

Jan 2008 – Jun 2011

Executive Member

- Arranged some campus-wide blood donation program
- Provided relief services to underprivileged children, families and natural disaster victims

AWARDS

Most Valuable Employee Award – 2012, mPower Social Enterprises Ltd.

- One of three awarded employees from over sixty employees

LANGUAGES

- Fluent in English and Bengali; Conversational in French and Hindi
- TOEFL Score: 89 (Reading-23, Listening-23, Speaking-23, Writing-20)

INTERESTS

Sports (table tennis, cricket, soccer), playing with children, travelling, reading, hiking, solving puzzles, photography