Prem Shah

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EDUCATION

- **University of Washington, Information School** — Seattle, WA
  Master of Science in Information Management (Specialization in Data Science); GPA: 3.8 — *Sep. 2017 – Jun. 2019*
  Relevant Coursework: Theoretical Foundations of Data Science, Visualization Design, Analytical Methods for Research
- **Ahmedabad University, School of Engineering & Applied Science** — Ahmedabad, India
  Bachelor of Technology in Information & Communication Technology — *Jul 2013 – May 2017*
  Relevant Coursework: Data Structures and Algorithms, Database Management Systems, Data Analytics & Visualization, Linear Algebra, Probability, Discrete Mathematics, Models of Computation, Internet of Things.

PROGRAMMING SKILLS

- **Languages**: C, Python, R, SQL, HTML.
- **Libraries**: Keras, Scikit-learn, Nltk, Pandas, Numpy, ggplot2, dplyr.
- **Tools**: Tableau, Microsoft Excel, Weka, MATLAB, MySQL Workbench, Spyder.

EXPERIENCE

- **Exponentia Datalabs** — Mumbai, India
  Intern, Text Analytics — *Jan 2017 – Apr 2017*
  Exponentia Datalabs is a growing analytics company specializing in end-to-end solutions for customer support analytics.
  - Migrated the sentiment analysis component of the companys product from Support Vector Machines to Recurrent Neural Networks. Improved the accuracy of the model from 78% to 86%.
  - Researched and developed a phrase chunking component to extract noun, adjectives and verb phrases. Further improved the accuracy and precision by approximately 2%. Integral component to extract multiple sentiments.
  - Reduced training time by 10% by optimizing different hyperparameters in keras.
  - Connected database through MySQL connector to give real-time sentiment analysis.

PROJECTS

- **Social Statistics: Studying opinions to understand migration** — *Dec 2017 – Current*
  - Working as an independent researcher under Prof. Emilio Zagheni to understand migrant demography using LinkedIn & Twitter data.
  - Analyzing tweets from potential migrants to detect change in opinions and timing of migration
  - Understanding how migration affects socio-psychological factors like happiness
- **Quantitative Research: Factors affecting the ethical usage of assistive technology for dementia** — *Sep 2017 – Dec 2017*
  - Used chi-square testing to check relation between various demographic variables and the level of impairment using the NACC dataset.
  - Analyzed survey and telephonic interview data to understand trends regarding the knowledge of dementia.
  - Presented recommendations for improving the development of assistive technology conforming to our findings.
- **Data Modelling, Internet of Things: Intelligent Energy Consumption Module for Homes** — *Aug 2016 – Dec 2016*
  - Applied weather data and household consumption dataset modelled on a Multivariate Linear Regression classifier from scratch to predict the power consumption of households to better organize power management.
  - The system interfaced a temperature sensor to calculate indoor temperature, humidity and heat index.
  - Built and implemented algorithm to calculate highest consumption hours from data.
- **Database Management: Medical Search Engine** — *Aug 2015 - Dec 2015*
  - Integrated and developed user search for nearby medical facilities and information using MySQL. Included functionality to search for nearest hospitals and drugstores based on users current geographical location.
  - Utilized users past search data and current geographical location to give results through querying and transaction processing. Also gave recommendations based on past searches
  - Created wireframes for user interaction using Pencil. Awarded the Best Project in class.

OTHER WORK EXPERIENCE

- **University Of Washington Dining**, *Student Assistant*, Seattle, WA — *Sep 2017 – Present*
- **Ahmedabad University**, *Teaching Assistant (Computer Science 111)*, Ahmedabad, India — *Jul 2016 – Dec 2016*
- **Apang Manav Mandal (School for the Disabled)**, *Teaching Volunteer*, Ahmedabad, India — *Jul 2015 – Sep 2015*