

Ankita Pal

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Education

University of Washington, Seattle, WA, USA

2019 - 2021

Master of Science in Data Science, GPA: 3.9

Delhi Technological University (Formerly DCE), Delhi, India

2013 - 2017

Bachelor of Technology in Mathematics and Computing Engineering, Percentage: 79.19

Skills & Abilities

Scripting Languages: Python, R, Advanced SQL, C, C++, MySQL, MATLAB, HTML, CSS, PHP.

Tools and Technologies: RStudio, Spyder, Aginity, Matillion, AWS S3, AWS Redshift, Azure Data Factory, Azure functions, Tableau.

Work Experience

- **Research and Development Associate(Data engineer):** Axtria India Pvt. Ltd Jun 2019 – Aug 2019
 - Responsible for the development and deployment of APIs and ETL components of in-house data warehousing tool.
 - Created data pipelines in Azure Data factory to fetch files from various sources and include them in the databases.
 - Developed a Filewatcher software using Azure functions to schedule the process of monitoring the expected files.
- **Business Information Management(BIM) Associate:** Axtria India Pvt. Ltd Jun 2017 – May 2019
 - Maintained healthcare marketing data warehouse on AWS Redshift clusters through software written in Python.
 - Entrusted with end-to-end responsibility from connecting with clients and vendors to meeting deadlines of deliverables.
 - Automated code for extract and business intelligence generation, which reduced manual efforts by 40 manhours a week.
 - Worked on fuzzy match algorithm in Python and tweaked it to reduce the processing time from 4-5 hours to few seconds.
- **Data Analytics Intern:** Serco Global Services Pvt. Ltd May 2015 - Jul 2015
 - Developed industrial level text and sentiment analysis dashboard. Highlights of were the visualization using python.
 - Tweaked the Breen's Algorithm, to increase the sensitivity of the sentiment analyzer by 15%.

Publication

- Ankita, [Principal Component Analysis of TF-IDF in Click through Rate Prediction](#), International Journal of New Technology and Research Volume 4 Issue 12, December 2018 issue.

Academic Projects and Achievements

- **Journey of Women over last 5 decades Data Visualization ([Link](#))** Sep 2017 – Dec 2017
 - Exploratory data analysis product built using Tableau based on indicators related to women from World Bank database.
 - Used for reporting changes in paradigms for women education, quality of life, employment and leadership roles.
- **Retrieval based College Admission Chatbot** Jan 2017 - Jun 2017
 - Developed a chatbot that assisted the students seeking admission in M. Tech and Ph.D. in DTU, using AIML.
 - Reduced the time spent by the authorities in answering questions that prospective students most frequently asked.
- **Generative based Human Conversation Chatbot** Jan 2017 - Jun 2017
 - Developed chatbot trained on dataset of subtitles of TV show using Sequence-to-Sequence model using LSTMs.
 - The highly reliable chatbot was able to mimic daily human conversations.
- **Cleared the entrance exam (ACET) and CT-3 (Statistics and probability) exam** Jun 2017
 - Exams organized by the Institute of Actuaries of India at the national level.
- **Click-Through Rate Prediction** Jan 2016 - Jun 2016
 - Predicted Click-Through Rates for Avito.ru (Russia based classifieds website) using [Kaggle Dataset](#).
 - Used Principal Component Analysis to reduce the dimensionality of the Term Frequency – Inverse Document Frequency (TF-IDF) matrix as it had a huge dimensionality and was very sparse and hence, difficult to manage.
 - 20% reduction in logloss (measure of error) than the top scorer of the active competition. Paper published using algorithm.
- **Study of various Time Series Forecasting models** Jan 2015 – Jun 2015
 - Implemented time series forecasting data models and used them to predict the quarterly rainfall from 2006-2011, using quarterly rainfall data from 1995 -2005.
 - Data modeling using the moving average forecasting model with seasonal indices in MATLAB.

Leadership and Volunteering roles

- **General Secretary:** Society of Industrial and Applied Mathematics (SIAM) DTU chapter.
 - Lead role in Stratazenith –Game Theory Event, in collaboration with team of KGPIan Game Theory Society (IIT Kharagpur).
- **Web Development Head:** DTU TIMES (the periodic newsletter of DTU).
 - Maintained and updated the website of the University newsletter and improved its aesthetics.
- **Associated with Deepashram** - run by the Society of the Missionaries of Charity Brothers of Mother Teresa of Calcutta).
 - Volunteered to develop the website of [Deepashram](#).