

KRATIKA MOTWANI

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EDUCATION

B. TECH IN COMPUTER ENGINEERING

Institute of Technology, Nirma University

(Ahmedabad, India), 2016 - 2020

– CPI (Cumulative Performance Index): 8.61/10

WORK EXPERIENCE

ZS ASSOCIATES

(Pune, India), July 2020 – Present

Business Operations Associate

Worked on creating a pipeline between ZS' central database to client's live feeds for observing daily utilization trends at various levels and identify abnormalities if any. Also, built a dashboard to read and synthesize the fluidity in promotional responses & resource utilization of the sales force's efficacy amidst the COVID scenario by assimilating the data, creating logics, protocols for various unstructured problems and computing unique metrics using pyspark, SAS, Python and SQL.

INTERNSHIPS

ZS ASSOCIATES

(Pune, India), Jan 2020 – June 2020

Business Operations Associate Intern

Worked on automation of various elements of sampling processes for pharmaceutical clients using SAS, python, SQL to streamline regular operations and built each processes' quality checks tools to reduce manual error probability.

WELLNESS SPACE

(Ahmedabad, India), May 2019 – July 2019

Data Analyst Intern

Worked on collection of raw data using ECG and EEG devices of individuals to observe various trends in their daily activities. Dealt with all the aspects of data from data collection to data refining to data analysis to its visualization. Focus during the training was to identify parameters, affecting the coherence state of individual and measures to increase the same.

MIND-E-FY

(Indore, India), June 2018 – July 2018

Developer/Programmer

Developed a web application-Kidster to track the overall activity of a child's development at preschool, from reminder module for parents and teachers, to laying out plans for future development of child at school. Used java technology for development of the backend APIs and SQL for database designing.

RESEARCH

SINGING BOWL IMPACT ANALYSIS ON HRV & STRESS INDEX

May 2019 – Oct 2019

Overall aim of the research was to compare the changes in stress in silence vs sound environment. Singing bowl session was conducted to observe the gradual change in stress as the session proceeds. MATLAB, Tableau and code modules in python were used to evaluate that the decrease in stress index and increase in HRV during singing bowl is more than that in silence.

PROJECTS

VIDEO CAPTIONING

Jan 2019 – Dec 2019

Developed a model using machine learning and deep learning skills to generate captions for input video. The process included object recognition, semantic segmentation and sentence generation. Project application includes a video search engine, where parsing parameters were based on objects in the video or the text in the captions.

STEEL DEFECT DETECTION*Nov 2019 – Dec 2019*

Designed a model to determine type of defect in a steel from four kinds along with positioning the defect. This was done using deep learning techniques like image segmentation, convolutional neural network and pytorch.

SENTIMENT ANALYSIS*July 2019 – Sep 2019*

Created a model trained to analyze movies reviews of IMDB dataset as positive or negative based on their weights and frequency of occurrence of a word using LSTM model.

STOCK MARKET PREDICTION*Feb 2019 – May 2019*

Created a model using machine learning and LSTM, which predicts company's profit or loss based on current scenario and financial performance simultaneously

BIBLIOTHECA – A BOOK PORTAL*Oct 2018 – Dec 2018*

Designed a book portal – an application providing user's features to subscribe, read, search and download various books using HTML, PHP, JavaScript and database.

BHARATTROTTER – BEST HOTEL DEALS*July 2018 – Nov 2018*

Designed a desktop application using HTML, PHP, JS and MySQL. The Application helps users to navigate and search hotels all over India based on their requirements and filters provided.

KBC (Kaun Banega Crorepati) - Quiz Game*Jan 2018 – May 2018*

KBC was a desktop application based on java and MySQL using randomize algorithm to generate questions depending on the stage you have reached, while terminating the game with any wrong answer.

SKILLS**Web Development** HTML, CSS, JavaScript, PHP**Database** MySQL, Xampp, Wamp, MyAdminPHP**Languages** C/C++, Java, R, Python, SAS, VBA**Machine Learning** Neural Networks, Classification Trees, SVM, Reinforcement Learning**Deep Learning** CNN, Autoencoders, RNN, GRU

ACHEIVEMENTS

Selected in National Talent Search Examination (NTSE) - National-level scholarship program conducted by the National Council of Educational Research and Training (NCERT)

CERTIFICATIONS

Coursera Certification on "Deep Learning Specialization" by deeplearning.ai

Coursera Certification on: "Natural Language Processing Specialization" by deeplearning.ai

Udemy Certification on: "Python for Data Science and Machine Learning Bootcamp" by Jose Portilla.

IIT Bombay Certification on "Python Training"

POSITION OF RESPONSIBILITY

ORGANIZING SECRETARY: Indian Society for Technical Education *July 2018 – July 2019*

CO-ORGANIZER: NU TECH (National Level Technical Fest) *Jan 2018 & Jan 2019*

CO-ORGANIZER: ISTE MUN *Apr 2019*