

Saumya Mehta

Data Scientist

Data Scientist with over 2 years of work experience leveraging data to generate meaningful insights and executing data-driven solutions. Skilled in machine learning, statistics, problem-solving, and programming.

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WORK EXPERIENCE

Data Scientist Playpower Labs

06/2018 – Present

Gandhinagar

- Developed Handwritten character recognition algorithm for connected characters that involved segmenting the connected characters and then passing them through a neural network for recognition. The accuracy achieved was 90% for English digits and 65% for Gujarati digits.
- Proposed a Curriculum pacing workflow for LearnSphere environment at Carnegie Mellon University to visualize student learning trajectories using curriculum data.
- Used data cleaning techniques to clean internal data logs for one of the company's product offerings.
- Assisted in data migration, cleaning and organisation by providing analytics about missing entries, improper data formats and missing links between dependent data sources.
- Helped clients in the education domain with their Business Intelligence products which have facilitated them in migrating their old technology stack to a machine learning ready stack by providing data insights and data-centric products.
- Provided data insights to clients using data visualisation and data mining techniques to understand the impact of their product offerings on students' learning behaviour.

Data Science Intern Playpower Labs

01/2018 – 06/2018

Gandhinagar

- Learnt about process mining and process discovery tools and techniques used to analyse event data.
- Performed data analysis and predictive modelling on educational datasets.
- Disseminated research findings to various personnel in different formats, including white papers, presentations and spreadsheets.
- Created various research summaries and presented them to supervisors to advocate further research.
- Gathered, arranged and corrected client data to create representative graphs and charts highlighting results for presentations.

Web and Android Development Intern Sunday Pyjamas

06/2017 – 07/2017

Ahmedabad

- Worked on a gamification based application for an organisation that rewarded its employees based on their performances on some KPIs

SKILLS

R

Python

Java

C++

Data Analysis

Data Mining

Data Visualization

Keras

Pytorch

Tensorflow

Opencv

MongoDB

JSON

MySQL

Pandas

Git

Android

Leadership

Collaboration

Problem Solving

PROJECTS

Handwritten Character recognition (08/2019 – 10/2019)

- Developed Handwritten character recognition algorithm for connected characters that involved segmenting the connected characters and then passing them through a neural network for recognition.

SuperResolution Generative Adversarial Networks(GANS) (08/2019 – Present)

- Upscaling very low resolution images using GANS with an effort to generate images as close to original images as possible.

Fitmate (08/2017 – 01/2018)

- A fitness tracking application with custom work out routines based on intelligent analysis of user routines. Recommends schedules and cards to the users to track their fitness and the workout can be adjusted at the pace user is comfortable to go.

Gender Identification from speech data (01/2017 – 07/2017)

- Used MFCC features from speech data to identify the gender of the speaker using Gaussian Mixture Models (GMMs)

Text extraction from business cards using Optical character recognition (01/2016 – 05/2016)

- An android app which extracts text from business cards with the help of Optical character recognition using Tesseract library

PUBLICATIONS

Educational Data Mining Research

Using Curriculum Pacing in LearnSphere to Visualize Student Learning Trajectories

Author(s)

Derek Lomas, Nirmal Patel, Dhaval Prajapati, Saumya Mehta and Parth Agrawal

March, 2019

Society for Learning Analytics Research (SoLAR)

EDUCATION

B.Tech (Computer Engineering)

Nirma University

07/2014 – 05/2018

7.87/10

HSC 12th Board

Bhulka Vihar School

06/2013 – 03/2014

89.23%

SSC 10th Board

Bhulka Vihar School

06/2011 – 03/2012

91.8%

COURSES AND WORKSHOPS

Introduction to Tensorflow for Artificial Intelligence,
Machine Learning and Deep Learning
(05/2019 – Present)

Coursera

- <https://bit.ly/36zqqjv>

Convolutional Neural Networks (10/2018 – Present)

Coursera

- <https://bit.ly/2PKVc37>

Speech Processing for Beginners (04/2017 – 04/2017)

Nirma University

- Speech Processing workshop organised by Centre for Continuing Education (CCE), Nirma University

Big Data Analytics with Hadoop and Spark framework
using Python Programming (12/2016 – 12/2016)

Nirma University

- Big Data Analytics workshop organised by Centre for Continuing Education (CCE), Nirma University

Probability and Statistics: A Computer Engineering
Perspective (04/2016 – 04/2016)

Nirma University

- Probability and Statistics workshop organised by Centre for Continuing Education (CCE), Nirma University

Ethical Hacking Expert Workshop (08/2014 – 08/2014)

Nirma University

- Ethical Hacking workshop organised by TechDefence at Nirma University

ACHIEVEMENTS

CISF- Golden Jubilee 10 km Run (01/2019 – 01/2019)

Central Industrial Security Force (CISF)

- Ranked in top 20 in 10 km run organised by CISF at Surat.

Bronze Medalist at All India Open Sea Swimming
(12/2011 – 12/2011)

Western Naval Command, Indian Navy

- Bronze Medalist at National Level Open Sea Swimming Competition organized by Western Naval Command, Indian Navy, at Worli Sea Face, Colaba

Bronze Medalist at All India Open Sea Swimming
(12/2010 – 12/2010)

Western Naval Command, Indian Navy

- Bronze Medalist at National Level Open Sea Swimming Competition organized by Western Naval Command, Indian Navy, at Worli Sea Face, Colaba

State Level and District Level Medalist
(05/2007 – 12/2011)

Gujarat State Aquatic Association

- Won over 40 medals at state level and over 50 medals at district level in swimming.

INTERESTS

Swimming

Cricket

Movies

Reading