

# HARSHIL SHAH

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## Education

### Bachelor of Engineering in Computer Engineering

August 2016 – June 2021

Gujarat Technological University

GPA: 8.7/10.0

## Experience

### Data Science Intern

September 2021 – October 2022

KoiReader Technologies

Bangalore, India

- Formed high-quality data sets by processing image and video data using Python and OpenCV.
- Annotated images to carry out image segmentation, object detection, and optical character recognition.
- Conducted quality assurance on the work of newly hired interns and mentored them.
- Received recognition from the Director for improving classification feature selection.

### Machine Learning Research Intern

June 2018 – June 2021

Adani Institute of Infrastructure Engineering

Ahmedabad, India

- Analyzed different machine learning algorithms for forecasting weather.
- Extracted information from 110 years of daily weather data for Ahmedabad city and performed data cleaning.
- Created data visualizations using Matplotlib and Seaborn for CSV data.
- Developed a pipeline for predicting the weather using Artificial Neural Networks.

### Android Developer Intern

September 2018 – December 2018

Royal SoluSoft

Ahmedabad, India

- Integrated Facebook and Google API for login and google maps API with custom layout.
- Designed an application for digital parking reservations using Java and incorporated Google Cloud Services.

## Projects

### Music Notes Generation | Python, Music21, Keras, LSTM Neural Network

- Formed Note and Chord objects and extracted contents of the dataset using Music21 python toolkit.
- Devised an LSTM Neural Network model to produce music notes using Keras library and python.

### Personal Assistant | Python, NLP, OpenCV, Computer Vision, Tkinter, MySQL

- Incorporated concepts of NLP and utilized Google's Text-To-Speech and other Speech Recognition APIs.
- Engineered facial recognition using OpenCV to provide intuitive and secure authentication.

### Diabetes onset detection using deep learning grid search | Python, Neural Network

- Formulated a deep neural network utilizing different dense and dropout variations.
- Evaluated various learning rates, dropout rates, activation, and neuron functions to train model with best calibration.

## Technical Skills

**Languages/Frameworks:** Python, C/C++, Java, SQL, JavaScript, HTML, CSS, Django

**Tools/Libraries:** Git, Docker, OpenCV, Tensorflow, Keras, Scikit-Learn, NumPy, Pandas, Matplotlib, Seaborn, Android

**Courses:** Machine Learning, Artificial Intelligence, Statistics and Probability, Data Structures, Algorithms, Operating Systems, Database Management Systems

## Publication

### Rainfall forecasting using artificial neural networks, chaos theory, and statistical downscaling of the data set.

June 2018 - December 2018

Shah, Harshil; Ganti, Ravikumar.

Poster abstract accepted at American Geophysical Union fall meeting; December 2018; Washington D.C.

## Certificates

Stanford Machine Learning Certification.

Oracle Database: SQL Fundamentals I.

Oracle Certified Expert, Java EE 6 Web Component Developer.

Oracle Certified Professional, Java SE 6 Programmer.

## Awards

### Final year project competition

Awarded 2nd rank out of 40 teams.

March 2021

Ahmedabad, India

### Techvridhdi IIT-Kharagpur National Android Championship

Attained 2nd at the State level and 5th at the National level for creating a music player.

February 2018

Kharagpur, India