# HANISH SINGLA

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## PERSONAL PROFILE

A software engineer with 2 years of hands–on experience in Python and SAP ABAP development. Passionate about AI/ML with the ability to apply and understand deep learning techniques.

## EDUCATION

**PUNJABI UNIVERSITY,PATIALA**
B.Tech (2011–15)
CGPA– 8.44 / 10

**GURU NANAK KHALSA SEN SEC SCHOOL, CHANDIGARH**
Graduated Class of 2011
Grade points– 82%

## CERTIFICATIONS

- Deep Learning Specialization, Coursera
- Machine Learning by Stanford University, Coursera

## ACHIEVEMENTS

- Honored as 'Top Performer' in the Foundation Program of Infosys Ltd
- Got accepted in Udacity Microsoft Azure Machine Learning scholarship program
- Got accepted to to Neuromatch Academy– Deep Learning summer online course

## OTHER SKILLS

- Growth mindset
- Ability to analyze complex technical information
- Habit of introspection
- Team Player
- Detail oriented

## WORK EXPERIENCE

### Infosys Ltd | 2015–17
**Systems Engineer**

- Built a doc2vec machine learning model that searches CVs based on specific job requirements
  - Preprocessing of the documents using NLTK word tokenizer and removing stop words
  - Used Cosine spatial distance method.
- Worked as an ABAP developer with a focus on Report Programming, Smartforms, and OOPS.

**Systems Engineer Trainee**

- Worked on a group project where we successfully created a platform for a car service centre to keep track of her business data and automate invoicing on the SAP platform.

## SKILLS

- Hands–on SQL experience
- Fluent in writing python scripts and effectively using features like OOPS, functional programming, virtual environments, and data structures
- Python libraries – NumPy, pandas, matplotlib, seaborn, flask
- Working knowledge of C, C++
- Basic knowledge of container technologies – Docker and Kubernetes
- Building and training deep neural networks – L2 and dropout regularization, hyperparameter training, batch normalization, gradient checking, and optimization algorithms.
- Basics of the convolutional neural networks – residual networks; visual detection and recognition tasks; neural style transfer.
- Building machine learning models on Microsoft Azure – versioning, data drift, feature engineering, using the Designer to build pipelines.
- IDEs – Visual Studio Code, Jupyter Notebook, Sublime text
- Version Control – Git

## PROJECTS

### SIGN LANGUAGE RECOGNITION

- Built a model that can recognise sign language using a convolutional neural network.
- Used Tensorflow library and achieved 80% test accuracy using Adam Optimizer

### IMAGE CLASSIFICATION

- Built an image classifier using deep neural networks that distinguish between cat vs non–cat images.
- Improved the test accuracy from 0.72 to 0.80 by increasing the number of hidden layers from 2 to 4.

### TWITTER BOT

- Created a python script that tweets from a text file
- After a successful tweet, the tweet is deleted from the file and appended to a successful tweets file.
- Used Twitter API and Tweepy library