

# Udit Manav

ASSOCIATE CONSULTANT · SR. SOFTWARE ENGINEER

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## Skill set

Programming	Python (Pandas, Numpy, <b>scikit-learn</b> , Matplotlib, <b>TensorFlow</b> , Keras, OpenCV* etc.)
Cloud Platform	AWS (S3, Lambda, SageMaker*, Textract*, Redshift*)
Visualisations	Plotly (2D, 3D plots), <b>Streamlit</b>
CI/CD Pipeline	Travis-CI*, <b>Heroku</b> *
Others	<b>Machine Learning</b> (Regression, Clustering, Classification, Random Forests, SVM), <b>Deep Learning</b> (Transfer Learning, CNN, DNN), Ensembles, Neural Networks, <b>Git</b> , <b>SQL</b> , sqlite

## Work Experience

### Capgemini Invent

ASSOCIATE CONSULTANT/SR. SOFTWARE ENGINEER

Gurgaon, India

Oct. 2020 - Present

- Mapped millions of outlets of an organisation with that of its parent's using **fuzzy string matching** on **Amazon Redshift**.
- **Anomaly detection** - Identified high density clusters of outlets spanning few meters which could be wrongly fixed.
- Built **data workflows** that ingest POS data and updates historical catalog on **Atlan** platform.

### Capgemini Invent

SR. ANALYST/SOFTWARE ENGINEER

Bangalore/Gurgaon, India

Jul. 2019 - Oct. 2020

- Demonstrated leveraging **AWS SageMaker** to train and deploy endpoint for ML model.
- Deployed end-to-end **tweets sentiment analysis** model on AWS.
- **Gyrus (Phase I)**, Text Analytics Engine
  - *Text Extraction* - As a **Technical Lead**, responsible for smooth data extraction. Leveraged **Camelot** and **AWS Textract** to extract relevant data from PDF documents.
  - *Tagging and Classification* - Converted a subset of textual data to their respective **BERT Embeddings**, clustered them and labelled each cluster appropriately. Trained different classifiers (**Naive Bayes**, **Multiple Logistic Regression**, **SVM**) on this labelled data. Finally, used **Label Propagation** to label remaining textual data.
- **CLTV Accelerator**, Customer Segmentation - Owned **complete back-end code** development, implementing functionalities such as data pre-processing, auto **clustering** and **RFM Analysis**.

## Projects

- 🐱 **Virtual Paint** (2020) - Drawing on screen using real time webcam feed. **Techs** - Python, OpenCV
- 🐱 **Neural Machine Translation** (2020) - Encoder-decoder seq2seq English to German translation model. **Techs** - Python, Tensorflow
- 🐱 **Flask Blog** (2020) - Built a multi featured blogging application, deployed on Heroku. **Techs** - Python, Flask, Heroku, Travis
- **Analysis of EHR** (2018) - Leveraged Uber's deep learning toolkit (Ludwig) to predict renal issues among patients based on features extracted from their EHR data (openEHR format). **Techs** - PL/SQL, Python, MongoDB, Ludwig

## Education

2017-19	<b>M.Tech.</b> , N.I.T. Delhi, CSE (Data Analytics), <b>8.43 (CGPA)</b>	Delhi, India
2012-16	<b>B.Tech.</b> , N.I.E.C., IT, <b>68.76 (Percentage)</b> , <b>64.28 (CPI)</b>	Delhi, India
2012	<b>Post Matriculation</b> , Vivekanand School, <b>78 (Percentage)</b>	Delhi, India
2010	<b>Matriculation</b> , Vivekanand School, <b>9.2 (CGPA)</b>	Delhi, India

## Certifications

May. 2020	<b>DeepLearning.AI TensorFlow Developer</b> , Deeplearning.ai 📄	Coursera
Jun. 2020	<b>Google IT Automation with Python</b> , Google 📄	Coursera
Jun. 2020	<b>Python 3 Specialization</b> , University of Michigan 📄	Coursera
Sept. 2020	<b>Deep Learning Specialization</b> , Deeplearning.ai 📄	Coursera
Feb. 2021	<b>TensorFlow: Advanced Techniques</b> , Deeplearning.ai 📄	Coursera
Mar. 2021	<b>Data Science Professional Certificate</b> , IBM 📄	Coursera