

Udit Manav

ASSOCIATE CONSULTANT · SR. SOFTWARE ENGINEER

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Work Experience

Capgemini Invent

ASSOCIATE CONSULTANT/SR. SOFTWARE ENGINEER

Gurgaon, India

Oct. 2020 - Present

- Mapped hundreds of thousands of outlets of an organisation with that of its parent's using **fuzzy string matching** and various other logic.

Capgemini Invent

SR. ANALYST/SOFTWARE ENGINEER

Bangalore/Gurgaon, India

Jul. 2019 - Oct. 2020

- Demonstrated how to leverage **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

- **Computer Vision**
 - **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
- **Flappy Bird NEAT** (2020) - Built Flappy Bird game using pygame. Trained an unbeatable bird using NEAT. **Techs** - Python, pygame, NEAT (Neuro Evolution of Augmenting Topologies)
- **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

Skill set

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

Education

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

Others

Feb. 2019	Participant , Annual Research Conclave	GDGU, Gurgaon
Feb. 2019	Participant , Workshop "AI for Computational Social Systems"	IIIT, Delhi
Jan. 2018	Participant , "National Symposium on Artificial Intelligence"	NIT, Delhi
Feb. 2015	Organizer , Technical event, "Test Your Brains"	NIEC, Delhi