### **EDUCATION**

### Northeastern University - USA

MS, Data Science

- Teaching Assistant: Deep Learning & NLP Mentored students & assisted professors in assessments, exams & grading
- Research Work (NLP): Automated an e-learning client's FAANG's interview preparation system business understanding, data cleaning, building rule-based and machine learning models, evaluating performance
- Coursework: Deep Learning & Neural Networks, Natural Language Processing, Artificial Intelligence, Data Mining • (with Machine Learning), Data Management & Database Design, Probability & Statistics, Computation & Visualization Jul 2009 - Apr 2011

University of Delhi - India MS, Mathematics (Hindu College)

University of Delhi - India

BS, Mathematics (Ramjas College)

Coursework: Probability, Statistics, Linear Algebra, Calculus, Analysis, Optimization, Operations Research

### WORK EXPERIENCE

NLP Engineer Co-op - Jeevahealth.ai (Medufin LLC), MA, USA

- Open Source Project: DialogFlow conversion process to simplify chatbot building using a one-liner terminal command ٠ which provides full support - input & output context setting, parameter saving, lifespan setting, entity tagging
- Built command line utilities to extract data from online forums like Reddit, Discord & counselling websites •
- Working on building a conversational AI using RNN & deploying using Flask, Gunicorn & Docker on AWS EC2 instance
- Technologies: Python, Tensorflow, HuggingFace, DialogFlow, Git, Gitlab, Jira, Unix, Docker, Node.js, Flask, AWS Machine Learning Engineer Intern - <u>CITAP</u> (SEWA), TX [Github] Jun 2020 - Aug 2020
- Mentored by: Parag Kulkarni (SVP SaaS Engineering, Nutanix) & Ankur Rastogi (SDE, Amazon AWS) Built an end-to-end AI-enabled customer support chatbot as a service integrated with slack & deployed on cloud •
- Scrapped & processed the Nutanix public documentation to build knowledge base in JSON format
- Used keywords extraction & LSTM neural network model to predict responses & their related article headings
- Technologies: Python, Flask, Google Cloud Platform, Neural Networks, BeautifulSoup, NLTK, JSON, Git, Github

SME - Meritnation, Pearson, S Chand, India

Aug 2011 - Aug 2018 Understood stakeholder's requirements; designed Profit & Loss statements to help in commissioning profitable educational products; performed weekly analysis of per-user data of Ask-Answer forum (queries of 6.5 million users)

# PROJECTS

- **CNN/Daily Mail, Media Dataset Text Summarization** Nov 2020 - Dec 2020 Built a neural attentional sequence-to-sequence LSTM model that can help generate abstractive summaries of text CIFAR-100, Image Dataset - Object Recognition [Github] [Paper] [Towards Data Science] Jun 2020 - Aug 2020 Trained CNN model using current state-of-the-art EfficientNetB0 with imagenet weights & achieved accuracy of 82% using image augmentation, early stopping, reduce learning rate on plateau & hyperparameter tuning techniques Displayed top predictions by training the model on NVIDIA GPU & 8vCPUs provided by Google Cloud Platform ٠
- Leading US Wholesale Corporation, Customer Dataset Predict Member Churn Feb 2020 - Apr 2020 ٠ Processed 10GB industry data to predict member churn using Logistic Regression, k-NN, Naive Bayes, Decision Tree
- Using model selection cross-validation technique achieved highest accuracy of 72.2% from Random Forest model
- COVID-19 Monitor [App] Feb 2020 - Mar 2020
- Developed interactive R Shiny dashboard to monitor geospatial trends of COVID-19 across the globe
- Fetched data through an automated ETL pipeline connected to John Hopkins COVID-19 data repository on GitHub • Property Management System [Github] Sep 2019 - Dec 2019
- Using SQL server developed database (schema, tables, table-level check constraints, computed column, encryption) to store information of rental services & maintenance for residents & staff as a one-stop solution

- Developed a DIY tool for authors to write & publish articles, & earn per view (YouTube for readers & writers)
- Analyzed website data (extracted from MySQL DB using Python scripts) of 10,000 users, 22,000 articles, millions of views to find top read articles, categories, users, fake views tracking & did marketing to increase website traffic

# SKILLS SET

**Blogging website - Oyewiki** 

- Language & Database Python, SQL, SQL Server, R (Basic), Java (Basic), HTML (Basic)
- Library Pandas, NumPy, Scikit-Learn, Transformers, Matplotlib, spaCy, TensorFlow, Keras, PyTorch, Flask
- Tool Git, GitHub, GitLab, GCP, AWS (Basic), Tableau, JupyterLab, Colab, Docker, Excel, Jira, R Shiny, PyCharm
- Algorithm Regression, Classification, Clustering, Machine Learning, Deep Learning / Neural Networks

Feb 2021 - Present

Jun 2016 - Dec 2018

Jul 2006 - Apr 2009

Sep 2019 - Dec 2021

GPA: 3.95/4.0