Kanika Jindal

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EDUCATION

Guru Gobind Singh Indraprastha University, Delhi, INDIA **August 2015 – June 2019**
Bachelor's in technology, Computer Science and Engineering **GPA - 8.92/10.0**
Courses: Algorithms and Design, Object Oriented Programming, OS, Compiler Design, Data Structures, Artificial Intelligence
Lovely Public Sr. Sec. School, Delhi, INDIA **April 2011 – March 2015**
Higher Secondary, **Courses:** C++, Physics, Chemistry, Mathematics **GPA – 92.4/100.0**

TECHNICAL SKILLS

Languages: Python, C, C++, HTML5, CSS **Databases and QL:** MySQL, OrientDB, Gremlin, Cypher, MongoDB, Neo4j
Libraries and Frameworks: Natural Language Processing - Gensim, SpaCy, NLTK, Hugging Face **Deep Learning -** TensorFlow, Keras, **Data Visualizations -** Bokeh, PlotLy, Matplotlib, Dash, BokehJS, Seaborn, **Others -** Pandas, Numpy, BeautifulSoup, statsmodels, Flask, JSON, Scikit-Learn, OpenCV, Dask, FeatureTools, Docker **Tools and IDEs:** Jira, Jupyter NB, JupyterLab, PyCharm, Spyder, Google Colab, Amazon SageMaker, AWS Lambda, Git, Postman, Tableau, Docusauras **AI/ML Skills:** Time Series forecasting, Regression, Clustering, NLP, Transformers, TensforFlow.js, Reinforcement Learning, Meta Learning, DeepL, Neural Networks, Computer Vision, Recommendation systems, Predictive Analysis, Data Analysis

WORK EXPERIENCE

Sopra Steria, INDIA (*Software Engineer in AI/ML*) **August 2019 – Present**

- Part of Research and Development team in artificial intelligence and machine learning.
- Developed API and **Python Library** for easy and fast coding of topic modelling and time series forecasting pipelines. They reduced the man effort by 80% in future projects. Benchmarked and documented the same using Docusaurus.
- Developed POCs **for Document Segmentation, Anomaly Detection, Face recognition, face emotion detection, style transfer on pictures, photo segmentation based on single photo of person to be recognized, meta-learning case studies, baggage classification, and reinforcement learning.**
- Developed dashboards for data analysis using Dash and Bokeh and built data stories for different internal stakeholders. Worked with graph database for banking data.
- Won award in Q2 2020 for being an outstanding performer and contributor to R&d.

EzySchooling, INDIA (*Software Developer Intern)* **June 2018- July 2018**

- Worked on the Handwriting text recognition (HTR) system built using OCR and Python for the school admissions website.
- Developed an API for document scanning and recognition of text using boundary boxes for a school's admission form format.

AAP, Delhi State Government, INDIA (*Research and Data Analytics Intern*) **March 2018- May 2018**

- Worked for Delhi government project for building an application to do analysis of crime in Delhi and predict and forecast the same using machine learning algorithms.
- Researched and pitched ideas for implementing machine learning in various other government based systems to modify towards the best policies and practices.

PROJECTS

Foot-Fall – Learnt R and built dashboard for analysis of the customer footfall using Shiny to improve the proximity of items in the store and make advertisements and counters more accessible. The data is generated through the sensor based camera which tracks the IP of the entering customer and keep check on his movement in the store.
Segment It! – An application to segment text documents using Multinomial Naïve Bayes algorithm. It segments the user documents from their original folder to their automatically generated labelled folder. Labels are trained only on 5 documents each using Few shot learning technique. Used TF-IDF, N-Grams, Glob, Shutil, Vectorizer, Pandas and Numpy to perform preprocessing and load and create the folders.
Inter- Stellar – An application to predict and forecast price of cryptocurrency Lumen – Stellar. Data is streamed from online source and the next day and month prices were forecasted with 94.3% accuracy using LSTM (Recurrent Neural Networks) and dashboard using Dash.
Sentiment Analyze my comments – Developed an application to predict the sentiment of a user comment. The XGBoost model is trained using IMDB reviews dataset with an accuracy of 84.78% on predictions. Built using AWS SageMaker, S3, Pytorch and deployed using SageMaker's Endpoints, AWS Lambda function and AWS API Gateway.
Shakespeare Sonnet using LSTM – Built RNN from scratch for forward and backward propagation and trained the model on 19909 total characters from Shakespeare Sonnets to generate a new sonnet using the already trained machine learning model from a new Eng. word or line.

BLOGS AND ARTICLES

- *Achieving Artificial General Intelligence (AGI) using Meta Learning — Learning to Learn* *Noteworthy – The Journal Blog*
- *'Hello World' of TensorFlow.js |How can you build a browser based ML model in 5 minutes.* *Medium*

EXTRA CURRICULAR AND CERTIFICATIONS

- Machine Learning Engineer Nanodegree – Udacity, July 2020.
- Coursera - Machine Learning: Stanford University, Deep Learning Specialization: deeplearning.org, Convolutional Neural Networks in TensorFlow, Browser based models with Tensorflow.js, Sequences, Time Series and Prediction
- Global Ambassador at WomenTech Network and member of WiMLDS, Delhi Chapter, Writer at Noteworthy – The Journal Blog.
- President for Swaranjali – The music society, trained Indian classical singer and performed and won at 20+ state level comp