

Kanika Jindal

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EDUCATION

University of Southern California, Los Angeles, CA

Master of Science, Computer Science

Courses: Foundations of AI, Analysis of Algorithms, Machine Learning, NLP, Web Technology

Jan 2021-Dec 2022

GPA-3.8/4.0

Guru Gobind Singh Indraprastha University, Delhi, INDIA

Bachelor of technology, Computer Science and Engineering

Courses: Algorithms and Design, Object Oriented Programming, OS, Compiler Design, Data Structures, Artificial Intelligence

Aug 2015-Jun 2019

GPA-8.92/10.0

TECHNICAL SKILLS

- **Interests and Domain:** Full stack development, Knowledge Graph, Data Analysis, Machine Learning, NLP, Time Series
- **Languages and Frameworks:** Python, C++, HTML, SQL, CSS, JSON, Flask, Git
- **Databases and QL:** MySQL, MongoDB, Neo4j
- **Libraries:** Bokeh, Plotly, Matplotlib, Dash, BokehJS, Seaborn, Scikit, Spacy, Gensim, Keras, Pytorch, Xgboost, Tensorflow
- **Tools and Infrastructure:** Jira, SageMaker, GCP, AWS, Postman, Tableau, Docusaurus, Docker, Agile

WORK EXPERIENCE

Software Engineer | Sopra Steria, Noida, India

Aug 2019-Dec 2020

- Worked in the **Research and Development team focusing on Digital Technologies.**
- **Automation:** Single handedly developed Python library for Natural Language Processing which included EDA processes, visualizations and algorithms implementations, to abstract the general pipeline which **reduced human effort per project by 80%.**
- **Full Stack:** Collaborated in a team of five to build an anti-money laundering system to assist global banking system to investigate daily, monthly, and yearly transactions to prevent laundering.
- **Machine Learning:** Lifted prediction accuracy scores by 5% for projects by benchmarking time series models. Also, automated ticket resolutions on ticket systems such as JIRA by leveraging machine learning to recommend a solution until human intervention.
- **Achievements:** Won award in Q2 2020 for being an 'Outstanding performer and Contributor' to Research & Development.

Software Development Intern | EzySchooling, New Delhi, India

Jun 2018-Jul 2018

- **Machine Learning:** Digitised admission forms for primary schools in India and reduced turnaround time by 10x.
- **Computer Vision:** Worked on Handwriting text recognition (HTR) and Optical Character Recognition through Tesseract and OpenCV to create bounding boxes according to given template form with accuracy to extract characters of 84%.

Research and Data Analytics Intern | AAP, New Delhi, India

Mar 2018-May 2018

- **Crime Data Analysis:** Predicted ratio of solved to pending cases with the police department to **optimize** staffing.
- **Initiative:** Researched and designed ideas for automation implementation strategies in present systems to achieve best policies and practices.

ACADEMIC PROJECTS

Cloud Cover App | Python, Flask, JSON, Tomorrow.io API, Geocoding, Google Cloud Platform

A webpage that allows user to search for weather information anywhere in world or current location and for any past date.

PyForecast | Python, Flask, Time Series, Plotly, Dash

Python library that helps in benchmarking time series algorithms and provide one line code for visualizations and metrics calculation.

Rich text Segmentation | Python, Supervised ML, Pandas, TF-IDF, Scikit Learn, Numpy, Few Shot Learning, Flask

Document segmenter using Multinomial Naïve Bayes algorithm and few shot learning with accuracy score of 95% .txt documents.

Sonnet Generator | Python, LSTM, Keras, Tensorflow, Gensim, Natural Language Processing

Webpage to generate a Shakespeare style sonnet based on a single input title given by user through NLP and recurrent neural networks.

Footfall for Growth | Data Analytics, R, Shiny

Analytics dashboard of interactive charts (line, pie, bar) for customer footfall in a retail store to grow markets through sales.

Inter-Stellar | Time Series Forecasting, Python, LSTM, Flask, Dash

Lead team of four to develop an application to forecast price of Lumen with 94.3% accuracy with LSTM model.

EXTRA CURRICULAR

• **Research Assistant Intern | Information Sciences Institute, Los Angeles, CA** (Jun 2021-Aug 2021): Assisted Professor Pedro Szekely in creating knowledge graph to link authors, co-authors, research topics, and grants from academia research data linking 40k different nodes through 100k relations using Python and KGTK.

• **Teaching Assistant at University of Southern California** (Jan 2021 – Present): Produced course materials, Graded assignments, quizzes, and held office hours to assist graduate students with code debugging and homework for DSCI 510 - Programming with Data Science, ITP 249 - Introduction to Data Analytics, BUAD 312 - Data Science and Statistics for Business and DSCI 558 - Knowledge Graphs.

• **OpenSource contributor for Pycaret:** Developing the one-line code recommendation system library using Python.

LEADERSHIPS AND ACTIVITIES

• **Senator for Viterbi Graduate Student Association** (2021-22) at USC - Organised technical, academic, and cultural involvement fairs as a

• **Global Ambassador** at WomenTech Network and **member of WiMLDS**, Delhi Chapter.

• Presented in JP Morgan and Stanley's **Data for Good hackathon**.

• **Assisted IBM's in-house Watson Studio team** to benchmark different AutoML platforms during Winter 2020.

• **Vice President** for Music Society (2017-2019) in Undergraduate.

• Completed **Machine Learning and Deep learning certification** by Stanford University and Tensorflow.js in Summer 2020 on Coursera, got Python certification from IIT, Madras in Summer 2018 and completed Udacity's Nanodegree of application of machine learning.

• **Youtube** channel (1500 Subscribers, 100k+ views), videos to help students transition as an international student to United States.

• **Published** Achieving Artificial General Intelligence (AGI) using Meta Learning — Learning to Learn, in Noteworthy – The Journal.

• **Grace Hopper Celebration (GHC) 2021**, attendee.