Kanika Jindal

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EDUCATION

University of Southern California, Los Angeles, CA **Jan 2021-Dec 2022**
Master of Science, Computer Science GPA-3.8/4.0
Courses: *Foundations of AI, Analysis of Algorithms, Machine Learning, NLP, Web Technology*

Guru Gobind Singh Indraprastha University, Delhi, INDIA **Aug 2015-Jun 2019**
Bachelor of technology, Computer Science and Engineering GPA-8.92/10.0
Courses: *Algorithms and Design, Object Oriented Programming, OS, Compiler Design, Data Structures, Artificial Intelligence*

TECHNICAL SKILLS

- **Interests and Domain:** Full stack development, Knowledge Graph, Data Analysis, Machine Learning, NLP, Time Series
- **Languages and Frameworks:** Python, C, C++, HTML5, CSS, AngularJS, 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 Others:** Jira, Jupyter, PyCharm, Spyder, Google Colab, SageMaker, GCP, Postman, Tableau, Docusauras, Docker, Agile

WORK EXPERIENCE

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

Software Engineer | Sopra Steria, Noida, India **Aug 2019–Dec 2020**
- Reduced human effort per project by 80% through development of a Python Library for Natural language processing pipeline.
- Increased prediction accuracy scores by 5% for projects by benchmarking time series models.
- Automated ticket systems such as JIRA by leveraging machine learning to recommend a solution until human intervention.
- Built Python Scripts to develop EDA processes and transform into industry dashboards with Dash, plotLy, Bokeh for six internal stakeholders.
- 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**
- Digitised admission forms for primary schools in India and reduced turnaround time by 10x.
- 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**
- Optimized staffing and helped cutting monthly costs by 40% by predicting ratio of solved to pending cases in given time.
- Researched and designed ideas for machine learning 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.
- **Anti-Money Laundering System** | *Python, Data Analysis, Leaflet, Bokeh, Geospatial*
  Flask API and angular webpage to assist global banking system to investigate daily, monthly, and yearly transactions to prevent laundering.
- **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*
  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.

LEADERSHIP AND INVOLVEMENT

- **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 Python library **Pycaret**.
- Organised technical, academic, and cultural involvement fairs as a **Senator** for **Viterbi Graduate Student Association** (2021-22) at USC.
- **Global Ambassador** at WomenTech Network and member of WiMLDS, Delhi Chapter.
- Presented in JP Morgan and Stanley's **Data for Good hackathon**.
- Benchmarked different AutoML platforms for **IBM's in-house Watson Studio team**.
- **Vice President** for Music Society (2017-2019) in Undergraduate.
- **Published** Achieving Artificial General Intelligence (AGI) using Meta Learning — Learning to Learn, in Noteworthy – The Journal.
- 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.
- **Grace Hopper Celebration (GHC) 2021,** attendee.