Palak Bansal

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PROFESSIONAL SUMMARY - I am experienced in Java and Python and have extensive knowledge of software development along with machine learning and deep learning libraries. My communication skills are excellent and I have spoken about Data Science at multiple conferences. I am looking forward to exploring different problems in new industries to support my expertise while I complete my MS in Data Science at NYU.

EDUCATION

New York University, New York

Master of Science, Data Science

2022-2024

Current coursework: Optimization and Computational Linear Algebra, Intro to Data Science, Probability and Statistics Expected coursework: Machine Learning, Big Data, Database Management, Natural Language Processing

MANIPAL INSTITUTE OF TECHNOLOGY

Manipal, India

B. Tech. Information Technology, CGPA: 8.46/10

2015-2019

Minor specialization in Data Analytics

Relevant coursework: Machine learning, Computer vision, Pattern recognition, Information Retrieval, Business Intelligence Big data analytics

Additional coursework: 'Neural Networks and Deep Learning' by DeepLearning.AI on Coursera

Best student award: President of student club ISTE, Manipal

SKILLS

LANGUAGES: C++(Advanced), Java(Advanced), Python(Intermediate)

TECHNICAL SKILLS: NLP, Deep Learning, SQL, Graphql, Microservices, Data Structures, Algorithms, Tensorflow, Pandas, Numpy

EXPERIENCE

SAP A RIBA

Bangalore, India

2019-2022

Developer Associate

- Contributed as backend developer to a spring boot application that performs optimization and analysis of procurement data.
- Generated real-time intelligent insights for customers using unsupervised learning, anomaly detection and feature selection.
- Designed and developed multiple business critical features, GraphQL and REST APIs for exporting data, enabling note sharing, connecting to multiple data sources, integrating with other microservices and multivariate visualization.

Data Science Intern 2019

- Performed NLP tasks including Named Entity Recognition, Text Classification, Similarity Calculation to extract information by transforming unstructured and differently structured data to the structure required by the SAP system.
- Researched and applied various NLP tools and techniques including Pandas, NLTK, GloVe, BERT, ElMo and IBM Watson Knowledge Studio to perform similarity calculations for column mapping with 82% accuracy and NER to identify entities from unstructured customer data with 0.76 precision and 0.62 recall.
- Won the poster presentation for this at WE Local India conference organized by SWE, Society for Women Engineers.

RELIANCE JIO Mumbai, India 2018

Data Science Intern

- Preprocessed, analyzed and visualized data logs generated by Netra AAT(Automatic Antenna Tuner) using R and Python working on libraries like **Tensorflow**, **Pytorch and Matplotlib**.
- Applied neural networks using Keras to classify Netra's reading to predict reliability of results and improved the performance by 20%, rejecting the less reliable readings.

ENGINEERING PROJECTS

INTELLIGENT INSIGHTS GENERATION

2021

- Built a Diango application to generate insights from customer data which provides information about the distribution, highlighting exceptional instances and important features in real time with unsupervised learning.
- Researched and implemented various outlier detection algorithms and a feature selection algorithm specific to the use case.
- Presented the work in **SAP's largest conference SAP DevX** as a part of the Predictive Summit.

INFORMATION EXTRACTION FROM UNSTRUCTURED DATA

- *2017*
- Developed a tool to **perform topic modeling** to identify topics from academic corpuses in sample texts using **LDA** and **Mallet**.
- Implemented and compared all the existing word similarities and sentence similarities based on NLTK WordNet.

PRICE PREDICTION

2019

• Predicted prices of various items grouped in categories within a \$5 margin using times series data spanning multiple years.

ACHIEVEMENTS AND AWARDS

Society of Women Engineers - WE Local Bengaluru conference

2022

Panelist and primary speaker for "Communication skills for women in tech" at the SWE (Society of Women Engineers) WE Local Bengaluru conference 2022.

GLOBAL CODEATHON AND IDEATHON AT SAP ARIBA

2020

Made it to the finals for creating a prototype of an intelligent tool generating insights and performing intelligent supplier recommendation.

• CODING CONTEST WINNER 2019

Won a coding contest focusing on competitive coding organized by Honeywell at the WE Local India conference in Bengaluru

EXTRACURRICULARS AND COMMUNITY SERVICE

- "Unconscious Bias" Seminar at SAP- Delivered a seminar on "Unconscious bias" at my workplace with over 150 attendees. 2021
- EMPOWER PROJECT Organized an initiative for women in technology to improve their communication skills. Mentored the first batch of 10 women through well structured sessions involving technical discussions and blog writing.

 2020-2021
- GLOBAL YOUTH LEADERSHIP & GIRL-CHILD FOUNDATION (GYLGF) Volunteered to mentor young girls in Nigeria through the Raising Girls Ambition (RAGA) project by Global Youth Leadership & Girl-child Foundation (GYLGF)

 2021
- <u>Technovation Idea Labs</u>, by <u>UNESCO</u>, <u>Technovation and SAP</u> Volunteered for Technovation Idea Labs AI/Entrepreneurship program to empower girls with artificial intelligence (AI) entrepreneurship skills.
- ROTARACT CLUB Volunteered for clothes distribution drives, orphanage and old age home visits at Rotaract Club, Manipal.

2015-2017