BHARATI JAGDISH PANIGRAHI

Los Angeles, CA | P: +1 (213) 272-6800 | bpanigra@usc.edu | <u>LinkedIn</u>

EDUCATION

UNIVERSITY OF SOUTHERN CALIFORNIA | VITERBI SCHOOL OF ENGINEERING Los Angeles, CA
Master of Science Aug 2023 - May 2025
 Major in Computer Science; Specialization in Artificial Intelligence
 Relevant Coursework: CSCI 571 – Web Technologies, CSCI 567 – Machine Learning

NMIMS UNIVERSITY (MPSTME) Mumbai, India
Bachelor of Technology July 2019 - May 2023
 Major in Data Science (CGPA – 3.81/4.00)
 Achievements: Awarded the Meritorious Student Award for the BTech Data Science 2019–2023 batch.
 Relevant Coursework: Applied Mathematics, DBMS, ETL, Machine Learning, NLP, Predictive Modelling, Deep
 Learning, Statistics, Design Thinking

WORK EXPERIENCE

THINK ANALYTICS INDIA PVT. LTD. Mumbai, India
Data Science Intern (Team of 7 people) Jan 2023 – July 2023
- Aimed the development of an advanced analytics layer to leverage financial data from the Account Aggregator ecosystem.
- Demonstrated exceptional data management skills by standardizing diverse data formats, eliminating outliers, and rectifying issues of incomplete data. These efforts resulted in a remarkable 7% enhancement in the performance of machine learning model when compared to the existing one.
- Innovatively designed and engineered user-friendly visualization tools, making complex financial data easily accessible and comprehensible for Financial Information Users (FIU).

PUBLISHSUTRA – A PRODUCT OF MIGCIP INNOVATION LABS PVT. LTD. Hyderabad, India
Research Analyst Dec 2021-June 2022
- Conducted research in alignment with Zero Hunger Sustainable Development Goals, identifying critical factors impacting crop productivity in Telangana.
- Employed Principal Component Analysis (PCA) to pinpoint the primary driver of crop yield, highlighting rainfall, and utilized supervised Machine Learning to estimate crop yield with a final model achieving a Mean Absolute Error of 468.16.
- Acquired valuable skills in synthesis, writing, data collection, analysis, and scientific decision-making.

UNIVERSITY PROJECTS

CYBERBULLYING WARNING SYSTEM May 2022 - Nov 2022
- Developed an advanced online warning system employing Natural Language Processing (NLP) and Machine Learning (ML) to accurately detect cyberbullying content within messages.
- Performed comprehensive data collection, preprocessing, and annotation using Active Learning techniques, followed by supervised machine learning model training with multiple classification algorithms. Achieved a significant 30% improvement in accuracy compared to prior models.
- Designed and implemented a user-friendly system to assess message content for bullying indications, determine toxicity levels, and issue warnings accordingly.

ONLINE VOTING SYSTEM Aug 2020 - March 2021
- Built an online voting system for Indian elections to facilitate safe voting during the pandemic, increasing voter turnout and reducing costs.
- Created MySQL tables for User and Candidate data, implementing unique authentication IDs for user validation and ensuring a one-person, one-vote system.
- Successfully executed the project, enabling convenient remote voting and streamlining the voting process for improved accessibility and efficiency.

TECHNICAL SKILLS

- **Programming Languages:** Python, R, HTML, CSS, JavaScript
- **Big Data & Machine Learning:** MySQL, Machine Learning (ML), Neural Networks, Deep Learning
- **Data Science & Miscellaneous skills:** ETL, Data Science Pipelines, Statistics, Data Analytics, Data Visualization, Natural Language Processing (NLP), Predictive Modelling, Tensorflow, Numpy, Pandas, Scikit Learn
- **Tools and Software:** Tableau, Microsoft PowerBI, MS Word, MS Excel, MS PowerPoint, Git Basics, SAS E-Miner

ADDITIONAL SKILLS

- **Soft Skills:** Communication, Team Player, Time Management, Multi-Tasking, Decision Making, Logical Acumen
- **Languages:** English, Hindi, Marathi, and Odia
- **Certifications & Training:** Become a Data Analyst Learning Path (LinkedIn Learning), Tableau Essential Training (LinkedIn Learning), Introduction to Artificial Intelligence (Coursera)

VOLUNTEERING & ACTIVITIES

OMDENA - HEALTHCARE CHATBOT April 2022 – May 2022
Team Lead (Team of 20 people)
- Developed a user-friendly chatbot to assist admitted patients in accessing medical and health-related information conveniently.
- Proactively joined the data preparation team, contributing to data cleaning and pre-processing using Active Learning techniques.
- Led a team of 15+ members to conduct Sentiment Analysis to gauge levels of stress, anxiety, and nervousness among patients.

DATA FOR SOCIAL GOOD HACKATHON Mumbai, India
Ranked among the top 11 winning teams out of 120 competing teams Sep 2021 – Oct 2021
- Proposed a data analytics solution aimed at generating evidence-based insights and interpretations.
- Presented the solution at the Virtual Research Symposium organized by the University of Massachusetts Amherst, USA, and to pertinent Government Departments in Telangana, India, contributing to data-driven decision-making.

STUDENTS' COUNCIL TECHNICAL COMMITTEE Mumbai, India
Event Planner and Coordinator Aug 2019 – June 2020
- Played a pivotal role in planning and promoting over 10 inter-college-level technical events.
- Managed logistics and hospitality coordination during the event day, ensuring smooth execution.