ACHU JEEJU

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EDUCATION

Indiana University Bloomington

Luddy School of Informatics, Computing, and Engineering   May 2025 (expected)

Master of Science in Data Science, GPA: 3.4
Courses undertaken: Statistics, Elements of AI, Applied Algorithms, Database Design, Advanced Database Concepts, Management-Access-Use of Big Data, Data Visualization, Social Media Mining, Information Viz.

Pillai College of Engineering (affiliated with the University of Mumbai)   May 2023

Bachelor of Technology in Computer Engineering, GPA: 3.7
Relevant Courses: Discrete Mathematics, Data Structures, Analysis of Algorithms, AI, ML, Big Data Analytics, Social Media Analytics

WORK EXPERIENCE

Faculty Assistance in Data Science Fellowship, Indiana University Bloomington   Jan 2025 - Present
Research Assistant

- Developing an interactive web-based visualization using Python, JS to explore biological comparisons in architectural discourse.
- Analyzing text data and overlaying insights onto Charles Jencks' Evolutionary Tree 2000 diagram.

IU Corps, Indiana University Bloomington   Oct 2024 – Dec 2024
Website Auditor

- Conducted persona-driven Bloomington Parks and Rec website analysis, identifying usability gaps, improving user engagement.
- Provided actionable recommendations to enhance accessibility and alignment with diverse user needs and goals.

PROJECTS UNDERTAKEN

Traditional Chinese Medicine (TCM) & Internet of Tongues   Sep 2024 - Dec 2024
Technologies being used: Python, CV concepts, U-Net, CNN, Postgres

- Collaborated with an external client, we helped develop an app to predict TCM syndromes using tongue images.
- Leveraged computer vision to refine a model linking tongue features (shape, color, coating, size) to syndrome prediction.

Preventing Decision Paralysis   Sep 2024 - Dec 2024
In Research/ Data Discovery Phase

- Enhanced solutions for decision paralysis by identifying and validating key resources and information.
- Contributed to a system to help chronic illness patients, like Parkinson's, with detailed drug information, effects, and side effects.
- Helped in designing a live-update dashboard for first responders to aid in disaster management and emergency decision-making.

The Rise and Fall of Somali Pirates   Sep 2024 - Dec 2024
Technologies used: Python, Streamlit, Plotly, Pandas

- Designed an interactive dashboard analyzing the rise and fall of Somali piracy, including geospatial and temporal trends.
- Analyzed economic impacts, highlighting the effectiveness of international counter-piracy strategies using engaging visualizations.

SKILLS

- Programming Languages: Python, R, C
- Data Visualization & Analysis: Plotly, Dash, Tableau, Power BI, MS Excel
- Databases: PostgreSQL, MySQL, MongoDB
- Web Development: HTML, CSS, JavaScript, Django
- Cloud Platforms: AWS, Google Cloud
- Languages: English, Hindi, Malayalam, Marathi

LICENSES AND CERTIFICATIONS

- Excel Boot Camp (LinkedIn Learning)   Aug 2024
- Visualizing Filters of a CNN using TensorFlow (Coursera)   Jul 2022
- Responsive Web Design (freeCodeCamp)   Aug 2021
- Pandas (Kaggle), Python (Kaggle)   Apr 2021