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

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

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 - Present

Technologies being used: Python, CV concepts, U-Net, CNN, Postgres

- Collaborating with an external client, we are developing an app to predict TCM syndromes using tongue images.
- Leveraging computer vision to refine a model linking tongue features (shape, color, coating, size) to syndrome prediction.

Preventing Decision Paralysis Sep 2024 - Present

In Research/ Data Discovery Phase

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

Fruit Ripeness Detection System Aug 2022 - Apr 2023

Technologies used: Python, Convolutional Neural Network model

- Developed a Python-based machine learning system using a CNN to identify and segregate ripe and unripe fruits.
- The CNN model demonstrates the project's technological innovation and its seamless integration into the agricultural sector.

Sentiment Analysis of Tweets using Twitter API Sep 2021 - Nov 2021

Technologies used: Python, Django, HTML, CSS, JavaScript

- A web app that can predict the sentiments of a tweet (positive, negative, or neutral) in real time.
- Integrated Twitter API for real-time data collection, applied NLP techniques for sentiment classification.

SKILLS

- Programming Languages: Python, R, C
- Data Visualization & Analysis: 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