Gnana Kartheek Tirumalasetti

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EDUCATION

SRM UNIVERSITY Computer Science with Specialization in Big data   Aug 2021 – Present
CGPA: 8.71/10
Coursework: Object Oriented Programming, DBMS, Statistics, Data Structures and Algorithms, operating systems, computer networks, Data analytics, Data management, Data warehousing & mining, Data analysis, Data Visualization, Probability, Agile SDLC.

TECHNICAL SKILLS

Languages:	Java, Python, SQL.
Data science:	Power BI, Pandas, Excel, Statistics, Machine learning, NLP (spacy, NLTK)
Full stack :	Django, Express.js, Node.js
Management Skills:	Communication skills, Problem solving, Critical Thinking, Collaboration, Proficient, Innovation, Competitive, Analytical skills, Leadership.

PROFESSIONAL EXPERIENCE

Research- An Empirical study of Precision Agriculture   June 2022 – June 2023
- In this research, I developed and implemented statistical models for plant leaf disease detection using a leaf dataset.
- After performing feature extraction, I employed classification algorithms such as SVM, Random Forest, and Decision Tree, and also used ensemble methods. By using ensemble methods, model accuracy increases from 78% to 90%.
- Furthermore, we utilized MATLAB to implement five deep learning techniques: EfficientNet, GoogLeNet, MobileNet-v2, VGG-16, and ShuffleNet, achieving a highest accuracy of 97%.

PROJECTS

Credit Card Recommendation   Jan 2024
- Employed demographic classification, Used spending behavior analysis, Segmented customers efficiently.
- Identified key target groups for personalized credit card recommendations, Designed a Power BI dashboard featuring key performance indicators KPIs and utilized DAX formulas to create dynamic calculations and enhance data analysis.

Election Results Analysis   Jun 2024
- Scraped and extracted election results from the Election Commission of India's website using Beautiful Soup.
- Built and analyzed datasets with Python and Excel, Leveraged statistical and analytical models for insights.
- Provided comprehensive operational and management reporting, Applied business analysis to highlight key leads.
- Tools/Technologies: Python, BeautifulSoup, Pandas, Data Visualization: Power Bi, Excel.

Job portal   July 2023
- Developed a fully dynamic system with real-time updates for job listings, user profiles, and application statuses
- Implemented three distinct user roles: job seekers, job providers (employers), and admin.
- Implemented secure user authentication for logging in and out of accounts.
- Tools/Technologies : Html, css, bootstrap, Javascript, Django, DB-browser(for database management)

PUBLICATIONS

An Empirical Study of Precision Agriculture-(Going to be published in the IEEE Conference.)   Jun 2023
- In this paper, Conducted empirical research on automated image classification for early plant disease detection in precision agriculture. Utilized MATLAB to implement five deep learning techniques: Efficient Net, GoogLeNet, MobileNet-v2, VGG-16, and ShuffleNet.

CERTIFICATES

Supervised Machine learning certification from IBM   link

ACHIEVEMENTS

Achieved 5-star rating in SQL on HackerRank   link
Solved over 140 problems on LeetCode   link