Dhruv Rao

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EDUCATION

UNIVERSITY OF CONNECTICUT - STORRS Storrs, CT
M.S. in Computer Science, UConn School of Engineering Expected May 2024
Relevant Coursework: Big Data Analytics, Data Mining, Machine Learning, Algorithms, Computer Networking.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY Bengaluru, IN
SJB Institute of Technology, Bachelors in Computer Science and Engineering August 2017- 2021
GPA: 7.97/10.00; Grade: First Class with Distinction
Relevant Coursework: Data Structure and Application, Design and Analysis of Algorithm, Database Management, Advance Java & J2EE.

PROFESSIONAL EXPERIENCE

Graduate Teaching Assistant Storrs, CT
UConn School of Engineering – Computer Science and Engineering January 2023 – Present
- Conducted weekly lab sessions and provided guidance to nearly 50+ students.
- Held regular office hours for Student support, Questions and offered students constructive feedback.
- Graded assignments, mid-term exams, and final exams for a class of 120 students.

ZeroZilla Infotech Pvt. Ltd. Bengaluru, IN
Software Engineering Intern March 2021 – April 2021
- Managed CRUD operations on customer databases and performed API testing with POSTMAN.
- Engineered a predictive house price model using linear regression achieving a remarkable 15% improvement in price prediction accuracy and spearheaded data analysis initiatives, including generating client reports and crafting Python scripts for data enhancement leading to a 30% reduction in data processing time.

Legal Ease Delhi, IN
Software Developer Intern May 2020 – July 2020
- Worked with a team of 3 people and contributed to creating their official website, involved in both frontend and backend development and deployment.
- Executed automated scraping, resulting in a 75% reduction in the manual creation of client timesheet backups.

PROJECTS

Bitcoin Price Prediction: A Deep Learning Approach using LSTM: Achieved an 87% accuracy rate in Bitcoin price forecasting by leveraging Deep Learning and LSTM neural networks by Analyzing five years of historical data and preprocessing extensive historical Bitcoin price data enabling informed decisions in the volatile crypto market.

ChatMate: Expertly developed an advanced and sophisticated conversational chatbot, boasting a remarkable 90% user satisfaction rate, achieved by harnessing Python's Natural Language Toolkit (NLTK) library. This achievement highlights the fusion of technical expertise with a dedication to crafting exceptional user experiences.

Fake Product Identification using Blockchain Technology: Established an application capable of distinguishing genuine products from the fake ones, by implementing the Blockchain network and QR code technology reducing counterfeit product incidents by 85%.

Credit Care: Attained an 81% accuracy rate in loan approval decisions as measured by comparative analysis, by assessing various Machine Learning (ML) techniques. Utilized skills encompass data analysis, machine learning, and predictive modeling.

Covid Finder | Final Year Capstone Project: Assembled a rapid COVID-19 detector achieving an accuracy of 93%, while validating with over 10,000 test samples and simultaneously implementing a real-time global COVID-19 virus statistics visualization, showcasing active cases, deaths, and recoveries on a world map.

Easy Money: Built a sophisticated machine learning-driven return prediction system by expertly utilizing comprehensive trading volume data and conducting a thorough analysis of intricate price actions, ultimately achieving a commendable approximate prediction accuracy of 73%.

Fashe: An Online Shopping Portal: Crafted a sophisticated e-commerce platform for fashion products featuring tailored product recommendations and seamless automated invoice delivery to users' email addresses, significantly elevating user experience while streamlining operational efficiency.

Bank Management System | Mini – Project: Fabricated a software for paperless account opening and transaction tracking as calculated by a 40% reduction in paperwork and a 30% increase in transaction efficiency, by centralizing account management using National ID or Unique ID.

My Bank: An Online Gateway for Credit Card and Loan Application: Designed a streamlined website for applying credit/debit cards and bank loans as quantified by a 50% reduction in application processing time by optimizing the application process.

TECHNICAL SKILLS

Programming Languages & Web Development: Java, Python, C/C++, JavaScript, PHP, HTML, CSS, JSP, Flask, Django, REST APIs.
Database and Data Analysis: MySQL, PostgreSQL, MongoDB, Matplotlib, NumPy, Pandas, Seaborn, MATLAB.
Tools, Architecture, and Project Management: POSTMAN, AWS, RARS, Office 365, Linux, Agile Scrum, ERP.

EXTRA-ACTIVITIES

Project Team Leader	September 2022, October 2020	**HaXploit (24-Hrs Hackathon)**	October 2020
Committee Member, CIPHER	April 2019	**Club Member, Python Club**	January 2018