SURAJ NARAYANAN KUTTY

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SUMMARY

As a Data Analyst with a strong background in NLP, data mining, and machine learning, I specialize in extracting valuable insights from complex datasets across various industries. My experience includes internships and freelance work, where I've applied advanced analytical techniques to solve real-world problems in sectors such as healthcare, mental health, and the automotive industry. Proficient in Python, SQL, and data visualization, I develop interactive dashboards and visualizations to effectively communicate findings. My background in data analysis, combined with hands-on experience in project management and academic research, enables me to interpret data trends and translate them into actionable strategies that support informed decision-making.

EXPERIENCE

FREELANCE

SELF-EMPLOYED (2021 – Present)

- Over 2 years of experience in delivering high-quality college projects and theses, specializing in Physics, Computer Science, and the Automobile Industry, with a focus on live projects like lidar technology and data analysis.
- Proficient in developing interactive data visualizations and dashboards using Python (matplotlib, seaborn) and advanced data mining techniques such as clustering, association rule mining, and sentiment analysis using NLTK and spaCy.
- Skilled in creating responsive web applications with Bootstrap and CSS, and leveraging Tableau and Power BI to visualize and present data insights effectively.
- Consistently managed up to 5 writing projects per week, demonstrating strong time management, versatility, and reliability while tailoring content to diverse audiences and academic objectives.

MACHINE LEARNING INTERN

AFRAME TECHNOLOGIES (04, 2024 - 09, 2024)

- Spearheaded project as team leader, guiding team members to ensure smooth execution.
- Managed task distribution and ensured timely completion of all deliverables.
- Delivered the project ahead of schedule, demonstrating strong time management and leadership skills.
- Developed a credit card fraud detection model using machine learning techniques, enhancing fraud identification and prevention systems.
- Built a customer churn prediction model, analyzing customer behavior patterns to aid in targeted retention strategies.
- Implemented a movie genre classification system, streamlining content recommendation processes for enhanced user experience.
- Designed an SMS spam detection algorithm, significantly improving spam filtering and user security.

TEAM LEADER - RESEARCH & PROMOTION

EVEPAPER (09,2024 - Present)

- ·Led and managed a team of 150 interns daily, ensuring task distribution, progress monitoring, and adherence to deadlines.
- Conducted and supervised research paper writing on a weekly basis, maintaining high standards of quality and accuracy.
- Reported directly to HR, providing regular updates on intern performance, behavior, and necessary adjustments.
- Coordinated workflow and optimized productivity by streamlining task management processes and addressing challenges promptly. ·

PROJECTS

BIOMEDICAL TEXT MINING Sep 2023

- I developed an AI-driven system to enhance evidence-based medical practices by extracting insights from unstructured clinical records, offering healthcare professionals structured information.
- My objective was to harness the power of sophisticated Natural Language Processing (NLP) and data mining technologies to significantly enhance the precision in extracting insights from data. This endeavour was meticulously designed to bolster and refine the decision-making capabilities of healthcare professionals.
- I utilized Python and implemented advanced NLP and data mining techniques, including NLTK, spaCy, and TensorFlow, to create a system for extracting insights from unstructured clinical records.
- My system achieved notable accuracies of 94.71% with Random Forest, 78.45% with Naive Bayes, and 94.46% with SVM, showcasing the effectiveness of my approach in extracting insights from unstructured clinical records.

TWITTER SENTIMENT ANALYSIS FOR MENTAL HEALTH Apr 2023

- I developed a system to analyze mental health-related discussions on Twitter, enabling the precise identification of user sentiments and emotions.
- My methodology involved meticulous pre-processing and analysis of Twitter data, with a focus on achieving high accuracy in sentiment classification to provide insights into users' emotional states.
- I leveraged the TextBlob library and applied Logistic Regression, enhanced with TF-IDF feature extraction, to analyze the data.
- The system I created achieved an 83.7% accuracy in sentiment classification, demonstrating its effectiveness in detecting and understanding the sentiments and emotions expressed by individuals online.

YOUTUBE TRENDING VIDEOS ANALYSIS

- Conducted detailed analysis of YouTube trending videos using the 'youtube.csv' dataset, examining metrics such as views, likes, dislikes, and categories.
- Developed visualizations including bar charts, box plots, and heatmaps to effectively communicate trends, distributions, and correlations within the data.
- Identified key insights on channel performance, audience engagement, and video publishing patterns to inform content strategies.
- Leveraged data-driven approaches to enhance understanding of YouTube's content dynamics and improve decision-making.

EDUCATION

UNIVERSITY OF HERTFORDSHIRE Hatfield, UK
Master of Science in Data Science and Analytics with Advanced Research Feb
2024 Major in Computer Science; Minors in mathematics and management.
Relevant Coursework: Data Analysis; Data Mining; Machine Learning; Algorithms; Artificial Intelligence.

CMS COLLEGE OF SCIENCE AND COMMERCE Coimbatore, IND
Bachelor of Computer Science Sep 2020
Major in Computer Science; Minor in Accounting and Marketing.
Relevant Coursework: Operating system; Visual Basic; Java; C; C++; Data Structures.

ACTIVITIES

CAMPUS LEADERSHIP AND VOLUNTEER EXPERIENCE

- Enhanced placement procedures and supported recruitment teams as a Placement Volunteer, while also overseeing financial management and budgeting as Treasurer of the Computer Science Department Association.
- Spearheaded technical event planning and execution as Technical Head for quiz competitions at Technotrix 2K17 and Prudentia 2K18, fostering team collaboration and ensuring successful outcomes. Additionally, contributed to the coordination and execution of events within the Anime Japanese and Indian Society.

ADDITIONAL

Technical Skills: BootStrap, JavaScript, HTML/CSS, MATLAB, Data Visualization, Data Mining, Data Collection and Management, Python (Numpy, Matplotlib, Seaborn, Pandas, Scipy), Machine Learning Algorithms (NLP, Sentimental Analysis, SVM, Random Forest, Naïve Bayes).

Tools: Tableau, Power BI, Microsoft Azure, Alteryx.
Languages: Fluent in English, Tamil, Malayalam, and Hindi; Conversational Proficiency in Japanese, German, and Marathi.
Awards: Achieved 8 first prizes and 2 second prizes in diverse national-level inter-college technical symposiums, showcasing proficiency in technical skills (e.g., debugging) and soft skills (e.g., marketing), with presentations on topics like Zigbee Technology and Unmanned Aircraft Systems.
Extracurricular: Active in volleyball, football, and basketball, enjoys manga and comics for creativity and cultural insight.