
PUSHKAL GARG

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PROFESSIONAL SUMMARY

I am driven to pursue a career as a Data/Business Analyst, leveraging my background in Business Administration to bring a well-rounded perspective to data-driven decision making. I am confident that my knowledge of business operations and strategy, combined with my interest in data analysis, will make me a valuable asset in this field.

SKILLS

- Data Analytics
- Data Visualizations using Tableau
- Statistical Analysis using R
- Web Development (Full Stack)
- Artificial Learning
- Machine Learning
- Deep Learning
- NLP (Natural Language Processing)
- Data Modelling
- Spreadsheets
- Databases (SQL)
- Python Libraries (NumPy, Pandas, Matplotlib, OpenCV, ggplot2)

WORK HISTORY

Research and Development Intern, 05/2023 - Current

DRDO, Ministry of Defence, Govt. of India – New Delhi, India

- Gathered, arranged, and corrected research data to create representative graphs and charts highlighting results for presentations.
- By leveraging my skills in data modeling, NumPy, analytical skills, statistical data analysis, natural language processing (NLP), artificial intelligence (AI), machine learning, research and development (R&D), databases, data analytics, and data visualization, I successfully utilized these abilities in a project, where I tackled complex problems and extracted valuable insights from the data. Additionally, I worked on a research paper where I applied these skills to conduct in-depth investigations, analyze data, and present original findings.

Technical Secretary, 11/2022 - Current

Association Of Computing Machinery, SIGAI – Jaipur, India

- Overseeing Project and Research teams to ensure technical quality assurance at events.
- Spearheading the implementation of new and existing programs to foster an AI culture for more than 2000+ students within the chapter and college.
- Representing ACM MUJ SIGAI at a global level, contributing to the chapter's success internationally.
- Ensuring a high level of excellence in all chapter endeavors by improving the technical aspect of events.

Web Development Intern, 03/2023 - 05/2023

The Urban Thela – Jaipur, India

- Optimized theurbanthela.com for smooth functioning & created 50+ product mockups.
- Developed user interfaces with modern JavaScript frameworks, HTML5, CSS3 & wordpress.
- Investigated resulting impacts on application concurrency to improve procedures.

EDUCATION

Bachelor of Technology: Computer Science (Hons.) in AI-ML, Expected in 2025

Manipal University Jaipur - Jaipur

- 8 GPA/CGPA

High School Diploma: 2021

Delhi Public School, Greater Noida - Noida

- Aggregate Percentage: 91%

PROJECTS

1. Depression among Students: A Data Analysis Study

Conducted a comprehensive study with 150+ students to detect and analyze depression using data-driven techniques. Data was collected through a survey of Psychologically certified Questions. Employed Tableau to create impactful visuals including scatterplots, pie charts, and donut charts, supporting the identification and understanding of depression patterns. Additionally, provided insightful recommendations to 50+ students on the verge of depression or already experiencing it, based on the patterns discovered through the analysis of their responses.

2. Enhanced Disease Detection: ML & Deep Learning Approach

Developed a predictive model utilizing deep learning and machine learning algorithms, such as deep learning reinforcement, decision tree, and random forest, to accurately predict 70+ diseases based on 250+ symptoms. Leveraged extensive data analysis and feature engineering techniques to train and optimize the models for improved accuracy and performance. Successfully implemented the model, enabling efficient disease identification. Additionally, provided personalized recommendations to users regarding potential treatment options and helpline contacts of nearby healthcare professionals.

3. Optimizing Inventory Management: Case Study on Order Trends Analysis for a Nearby Commercial Shop

Utilizing Microsoft Excel, SQL, and Tableau, I analyzed the order trends for a nearby commercial shop. By examining historical data, I identified patterns and insights to optimize inventory management. Dynamic visuals, including Gantt charts, bar charts, and line charts, were created using Tableau to present the findings. Overordering was reduced by 18%, improving operational efficiency, reducing inventory costs and ensuring optimal stock levels and maximizing profitability.

4. Dynamic Full Stack Website for Nearby Dining Establishment

The website offers robust functionality and a seamless user experience. Customers can easily browse the

menu, place online reservations, and access essential details about the restaurant's offerings. This project involved the development of a dynamic full stack website for a nearby restaurant, utilizing HTML, CSS, and JavaScript for the frontend, and PHP, Apache, and MySQL for the backend.

5. Full stack E-Commerce Platform for Local Shops

Leveraging HTML, CSS, and JavaScript, I created a visually appealing and user-friendly frontend, ensuring an engaging and seamless experience for website visitors. By harnessing the capabilities of PHP and MySQL on the backend, I established a robust infrastructure that facilitated secure data management

RESEARCH PAPERS

Advanced ML and Deep learning for Disease Diagnosis: Predictive Symptom Analysis(Ongoing)

Focusing on evaluating current models used in disease diagnosis while also developing newer models to enhance accuracy and expand the range of features. By leveraging the latest techniques in ML and deep learning, I aim to improve the performance of disease diagnosis models to provide health professionals and clients with more accurate and comprehensive diagnostic tools, contributing to more efficient healthcare decision-making and better patient outcomes.

CERTIFICATIONS

- Google Data Analytics Specialization
- FreeCodeCamp responsive web design
- Python By Michigan State University

ACCOMPLISHMENTS

Won various cryptic hunts in the CTF Format based on Cryptography, Cyber Security & Cipher Solving

- 2nd in CryptX By Randomize MUJ
- 2nd in Webstorm Wizard CTF By SCSE MUJ
- 2nd in CypherCrusade By ACM SIGAI MUJ
- 3rd in Decode by ACM MUJ
- 3rd in Brea(cout) By IEEE MUJ
- 4th in Decrypt By ACM MUJ
- 6th in Breached 2.0 by IEEE MUJ
- 2nd in Innovates by ACM SIGBED MUJ