Brij Sharma (Immediately Available)

+91-8477800422 | Bangalore | Email | Linkedin | github | Latest Resume

Career Objective

I am immediately available and looking for entry level opportunity in the field of data engineering and data science domain. I have good exposure of working on python scripting, databases and cloud-based application development. I am currently undergoing internship at IISC Bangalore DREAMLAB and working under guidance of research professionals.

Education and Experience

Internship IISC Bangalore Dreamlab	Currently Pursuing
M. Tech (Data Science Engineering), Manipal University Jaipur, Rajasthan	Aug 2023 – Ongoing
B.E. (Bachelors in Electronics and Communication Engineering), SKIT Jaipur, Rajasthan	Aug 2018 – July 2022

Projects

AI-Powered duet choreography / *Python, Pytorch, LSTM*   June 2024

- This project merges AI and dance, focusing on duet choreography.
- It involves extracting pose data from duet videos and training AI models.
- The AI predicts Dancer #2's movements or creates new, physically feasible duet phrases based on Dancer #1's inputs.
- The model's outputs will be used in collaboration with the original dancers to inspire new performances.

E-commerce Dashboard visualization / *Power BI*   October 2023

- Designed this project to create a comprehensive and interactive dashboard using Power BI to analyse and visualize key metrics and trends in an e-commerce business. This dashboard will provide valuable insights into sales performance, customer behaviour, and inventory management.

Chatbot / *Python, Dialogflow, MYSQL, Fast API*   September 2023

- Developed a sophisticated chatbot for the food business.
- These key features were integrated in this chatbot –
  a. Order placement, **b.** Payment support, **c.** Order tracking, **d.** Offer management, **e.** Store information
- Leveraged Dialogflow to configure and customize the chatbot's conversational flow.
- Utilized Python for backend development, ensuring the robustness the scalability of server-side logic.
- Implemented the Fast API framework to build the backend server.
- Designed and maintained the database using MySQL, ensuring data integrity and seamless retrieval of customer information and order details.

DOCBOT / *Arduino, C++, Python*   January 2022 – June 2022

- Designed and developed a medical robot for remote vital sign monitoring and data transmission.
- Programmed the Arduino using C++ to collect accurate vital readings, specifically focusing on temperature measurements.
- Implemented a predetermined path-planning algorithm to enable the robot to navigate autonomously.
- Successfully shared vital readings with doctors and healthcare providers via Bluetooth, facilitating remote patient monitoring and diagnosis.
- Conducted extensive testing and calibration to ensure reliable and precise temperature measurements.

Achievements-

- Winner in a poster presentation on the topic – "An approach for forecasting Neurodegeneration diseases using deep learning" in InnovateX under SSIC (International Conference on Smart System Innovations in computing)2023

- Best paper selection in the International Symposium on Data Science on the topic – "Deep Learning Approach for Parkinson's Disease Detection: Review, Challenges and Recommendations" organized by ACM student chapter
- Patent published with Application No. 202311073993 A, Title- Indian Classical Music Classification Model
- Participated in Hackathon (Elicit'23: Hackx 8.0) and made a website based on NLP organized by ACM student chapter
- Paper accepted in a conference on Intelligent Systems and Embedded Design (ISED 2023)- "A Robust Efficient Architecture for Brain Tumour Classification and Identification using MRI Image" (Under publication)
- Internship completed at Nectar Infotel on Data automation[Link].
- Selected for a summer internship at IIT Kharagpur.
- Currently pursuing an internship from IISC Bangalore at DREAM Lab, where I am working on some innovative projects under the supervision of research professionals[Link].

Certificates

- "Computer communications and networks" from Saylor Academy.
- "Web scraping in Python" from Great Learning.
- "AWS for Beginners" from Great Learning.
- "Programming in Python " from Internshala training.

TECHNICAL SKILLS –

Languages: Java, Python, SQL
Libraries: Pandas, Matplotlib, Opencv
Development platform: Dialogflow
Frameworks: Fast API
Developer Tools: PyCharm
Scripting Language: UNIX shell scripting, PL/SQL
Cloud Platform: AWS, GCP