Khushi Bhadange

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EDUCATION

Dr. D. Y. Patil Institute of Technology, Pune   **Sep, 2021- July, 2025**
B.E. - Computer Engineering | CGPA: 8.43 / 10

Rashtrasant Tukdoji Maharaj Nagpur University   **Feb, 2021**
12th | MSBSHSE | Percentage: 93.83 / 100

TECHNICAL SKILLS

Programming Languages: Java, Python, C++, PHP
Query Languages: SQL
Web Technologies: HTML, CSS, JavaScript, React, Node.js, Express.js, Anaconda
Developer Tools: AWS, Git, Power BI, Tableau, GitHub

EXPERIENCE

Indian Institute of Science Education and Research (IISER), Pune | Artificial Neural Network   **Oct, 2023 - Dec, 2023**
Research Intern

Key Skills: Python, SQL, Neural Network Architecture Design, Synaptic Modeling, Research, Data Extraction, Data Mining, Artificial Intelligence
- Demonstrated and optimized an innovative artificial synapse model more advantageous by a 25% increase in efficiency, thus allowing for significant development in neural network architecture for cognitive tasks.
- Executed a full research project on synaptic modeling, with the outcome being a 30% increase in the accuracy and performance of machine learning algorithms in artificial intelligence applications.

Association of Computer Engineering Students, DIT | Data Management | Data Analysis   **Sep, 2022 - Sep, 2023**
Data Manager

Key Skills: Communication, Python, Microsoft Excel, Power BI, MySQL
- Collaborated with 10+ cross-functional teams to streamline data retrieval processes, significantly enhancing the efficiency and speed of data access.
- Streamlined data analysis workflows by integrating MySQL with Power BI and Python; achieved a reduction in manual data processing time by 30 hours per month, significantly increasing overall team productivity.
- Implemented an automatic attendance monitoring system, reducing proctoring time by 50% and improving accuracy for 920+ participants and 2800+ members.

Upwork | Frontend   **Jul, 2019 - Sep, 2021**
Associate Freelancer

Key Skills: HTML, CSS, JavaScript, UI Development, SEO, Freelancing, Digital Communication
- Designed and built 18+ customized landing pages tailored to client requirements and target demographics using HTML, CSS, JavaScript, and Figma.
- Executed on-page SEO strategies, including keyword optimization and content restructuring, resulting in a 40% increase in organic traffic and improved search engine rankings for 10+ targeted keywords within three months.

PROJECTS

Doc-Sync-And-Topic-mapper | GitHub   **Mar, 2023 - Apr, 2023**
Key Skills: Data Analysis, Statistical Data Analysis, HTML, Python, Deep Learning, Machine Learning
- Originated a robust solution encompassing data loading, text preparation, and TF-IDF transformation, facilitating advanced document clustering for efficient organization of massive text datasets, reducing processing time by 40%.
- Implemented Latent Dirichlet Allocation (LDA) for sophisticated topic modeling, enhancing the project's capability to systematically comprehend and organize unstructured text data, providing users with valuable insights, and increasing topic identification accuracy by 35%.

EntryBotX | GitHub   **Jan, 2023 - Feb, 2023**
Key Skills: Java, JavaFX, Python, SQL, Data Analysis, PLSQL
- Engineered a JavaFX Sales Order module facilitating seamless automated data import from Excel sheets, enhancing efficiency in data retrieval and management.
- Automated the input of invoices, receipts, and expense reports into accounting software, minimizing errors and providing reliable financial records for informed decision-making.

RESEARCH PAPERS

Mimicking Minds: Synapses as Catalysts in Neural AI - An Overview   **Nov, 2024**
Review Paper | IEEE Transactions on Pattern Analysis and Machine Intelligence, ISSN: 1939-3539
Key Skills: Neural Networks, Neural Network Architecture Design, Artificial Intelligence, Deep Learning
Status: Under Double Blind Review

ACHIEVEMENTS

- Semi-finalist in the Smart India Hackathon, competing among 920+ teams.
- Finalist of Web Technology Competition, DIT, Pune.
- Scored 92/100 marks in Maharashtra State Certificate in Information Technology.