SALONI PATIDAR

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Professional Summary

Results-driven Software Engineer with expertise in Python, NLP, automation, and software development. Experienced in optimizing workflows, reducing processing times by up to 90%, and enhancing system efficiency. Passionate about building scalable applications, integrating AI-driven solutions, and improving user experience through innovation.

Education

Indian Institute of Technology (IIT) Mandi   July 2019 – May 2023
B.Tech in Computer Science(CGPA: 7.76/10.00)| *Minor in Management*   *Mandi, Himachal Pradesh*
- **Key Contribution**: Teaching Assistant for the courses "Data Structure and Algorithm".

Work Experience

Technical Lead   Oct 2023 – Present
HCL Technologies Pvt Ltd   *Chennai, India*
- Led the **design, development**, and **deployment** of software solutions using **Python**, **C++**, **MFC Framework, NLP techniques** improving data processing and automation workflows, **resulting in a 40%** increase in system efficiency and stability.
- Migrated an **embedded console application to a Windows-based MFC framework**, enhancing usability and reducing user errors by 40%. Integrated **RESTful APIs** to enable **seamless data exchange, improving system communication**. Additionally, leveraged JIRA for project management, streamlining collaboration and task tracking.
- **Designed and Automated** reporting workflows using **Excel VBA**, cutting **processing time by 70%**, and reducing **report generation time by 90%** through an advanced file integration.
- **Managed client databases, ensuring 100% accuracy** and real-time updates, improving operational efficiency.

Web Development Intern   Apr 2022 – May 2022
Neodocto Inc.
- Implemented user-friendly features, including product information and availability sections, **improving customer navigation and increasing product visibility by 30 leading to a 15% boost in online sales.**
- Optimized the company database by resolving issues on **10+ critical pages** using Excel and SQL queries, **reducing data retrieval time by 40% and improving page load speed by 25%.**

Projects

Codewing   May 2022 – June 2022
Technologies: React.js, Node.js, Firebase, WebRTC, API
- Developed **real-time collaborative code editor integrating chat, video calling and canvas drawing** features.
- **Reduced code-sharing friction by 60%** enabling seamless collaboration among developers.
- **Implemented WebRTC and Socket.io**, optimizing real-time communication and peer-to-peer interactions.

Fake News Classifier   Feb 2022 – April 2022
Technologies: Machine Learning, NLP, Python, Tfidf, Naive Bayes, Random Forest, K-NN
- Developed a sophisticated machine learning model for **fake news detection** by leveraging **NLP techniques** such as **Tfidf and Count Vectorizer** to accurately process and analyze textual data.
- **Optimized model performance**, by testing multiple algorithms **(Naive Bayes, Random Forest, K-NN)**, selecting the best classifier.
- Deployed **feature engineering techniques** to enhance text analysis, improving classification accuracy

Technical Skills

- **Languages**: Python, MATLAB, VBA, Java, SQL
- **Web & Application Development**: HTML, CSS, JavaScript, React.js, Node.js, REST APIs, Windows Application Development, Excel (Advanced, including VBA)
- **Database & Tools** : MySQL, PostgreSQL, Excel, Git, Jupyter Notebook
- **Data Science & ML** : Pandas, Numpy, Matplotlib, Seaborn, Data Visualization, TensorFlow/PyTorch, PowerBI

Achievements and Recognition

- **Recognized for Six Sigma and Value Creation:** Optimized reporting processes by developing an Excel automation system, reducing report integration time by 90% and significantly enhancing efficiency.