Pradeep Ranwa

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Education

Rajasthan Board of Secondary Education (RBSE) *2020*
Completed 12th grade with a percentage of 93.20%.

Central University of Rajasthan, Jaipur *2020 - Present*
Integrated MSc Computer Science

Skills

- **Programming Languages:** Python, C, C++
- **Machine Learning:** Scikit-Learn, PyTorch, TensorFlow, Supervised Learning, Unsupervised Learning, Pattern Recognition
- **Data Analysis:** Pandas, NumPy, Statistical Analysis, Data Manipulation, Data Processing
- **Python Libraries:** Matplotlib, NLTK, Spacy, TextBlob, Stanza, SciPy, Beautiful Soup, Selenium, Seaborn
- **Development:** Full-stack web development (HTML, CSS, JavaScript, React, NodeJS), REST APIs
- **Development Tools and IDEs:** Vim, VS Code, Jupyter, Google Colab, Anaconda, Metasploit
- **Version Control and Deployment:** Git, GitHub, Docker, SSH, Azure AI Services
- **Operating Systems:** macOS, Linux, Windows
- **Soft Skills:** Time Management, Teamwork, Critical Thinking, Problem Solving, Communication
- **Languages:** English, Hindi

Experience

Web Developer (Freelance) *Feb 2023 - May 2023*
Web Blog Sentiment Analysis Project

- Developed a web application for sentiment analysis, utilizing HTML, CSS, and JavaScript to create an intuitive user interface.
- Integrated natural language processing (NLP) techniques to analyze user comments and provide sentiment insights.
- Optimized application performance and implemented security measures to protect user data.

AI and Machine Learning Intern *May 2024 - Aug 2024*
Innovative Tech Solutions · Remote

- Developed machine learning models, increasing predictive accuracy by 15%, and contributed to an AI chatbot that reduced response times by 30%.
- Conducted data preprocessing and analysis using Python, facilitating data-driven decision-making across teams.
- Assisted with model deployment via Docker and created documentation for internal machine learning workflows.

Projects

Web Blog Sentiment Analysis *Nov 2023 - Jan 2024*

- Collected financial text data through web scraping using BeautifulSoup.
- Analyzed text sentiment using TextBlob to determine positive or negative tones.
- Processed and visualized data insights using Pandas for a better understanding of trends.

Personal Website *2023*

- Developed using the SvelteKit framework to optimize for SEO and accessibility.
- Implemented responsive design for improved user experience across devices.
- Deployed on GitHub Pages for easy access and maintenance.

Network Security Analysis *2023*

- Conducted network traffic analysis using Wireshark to monitor and troubleshoot network issues.
- Utilized Nmap for network mapping and vulnerability scanning, identifying potential security risks.

Personal AI Offline Assistant *2024*

- Developed a personal AI offline assistant utilizing the Llama 3.1 7B model, designed for local task automation.
- Implemented voice recognition and natural language processing for user interaction similar to Google Assistant.
- Optimized the model for performance on local hardware, ensuring quick and efficient responses.