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|  | **VIKAS PRAJAPATI**  Software Engineer | | | | | |
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| **Passionate professional with a strong background in Software Engineering, Project Execution, focused on leveraging expertise in Software Engineering Development to drive successful outcomes and contribute to organizational growth in targeted functional areas and industries.** | | | | | | |
|  | **Core Competencies**  **Education**   * Diploma in Big Data Analytics from Centre for Development of Advanced Computing (C-DAC) in 2023 * Bachelor of Technology in Electronics and Communication Engineering from Dr. Ram Manohar Lohia Avadh University in 2022   **Technical Skills**   * Python, Java, R, Statistics * C/C++, CMake, Static/Dynamic Linking * Linux, Shell Scripting * Apache Spark, Apache Kafka * RDBMS, SQL and NoSQL, MySQL, PostgreSQL, MongoDB * Flask & Django, Rest API, Fast API * Bitbucket & AWS Cloud, GitHub, Jira Ticket * Docker, Kubernetes * CNN, NLP, LLM, TensorFlow, PyTorch, Keras, Scikit-Learn * NumPy, Tensor, Pandas, Matplotlib, Seaborn, SciPy, Torchvision Models   **Personal Details**  **Date of Birth:** 19th Nov. 1998  **Languages:** English & Hindi  **Address:** Noida, India | | |  | **Profile Summary**   * **A results-driven software engineer** and web developer with over 6 months of experience in designing and implementing scalable **deep learning pipelines** using Python, leveraging expertise in **model development, conversion**, and reporting to drive seamless project delivery**.** * Leveraged extensive C++ development expertise, coupled with in-depth knowledge of **dynamic and static linking**, to deliver high-performance applications, complemented by proficiency in **Microsoft Visual Studio** and **CMake script** development, ensuring efficient project management and build processes. * **Committed to treating data as a strategic asset** and fostering a culture that prioritizes data quality, resulting in the creation of reusable data products pivotal in enhancing organizational-wide data capabilities, particularly in the deep learning domain. * Skilled in optimizing deep learning models through expertise in **ONNX** format conversion and **INT8** format quantization, utilizing various **calibration methods**, **activation functions**, and **weight optimization techniques** to achieve efficient and accurate model deployment. * Skilled in **Agile Project Management Methodologies** with skills in directing project teams and maintaining high-quality deliverables within time and budgetary parameters. * **Proven capabilities in building relationship** with clients & partners for evolving strategic vision, driving change, building services roadmap, infusing new ideas, implementing emerging technologies for the long run, and taking enterprise system performance & productivity to next level.   **Work Experience**  **From Oct 2023 to April 2024| MulticoreWare Inc | Chennai**  **As Software Engineer**  **Key Result Areas:**   * Spearheading the design, development, deployment, and management ensuring high availability, security, and scalability. * Collaborating seamlessly with cross-functional teams to gather project requirements, define clear objectives, and establish project timelines, streamlining development processes and reducing time-to-market. * Designing and developing critical software modules, showcasing expertise in system design, and implementing cutting-edge development frameworks. * Utilized expertise in deep learning models, including ***Max ViT, YOLOv5***, and ***Mask R-CNN***, to design and develop innovative image classification, object detection, and image segmentation solutions, demonstrating proficiency in applying cutting-edge algorithms to drive business value. * Collaborating in the development of multiple ***Python Flask*** and ***Fast API*** services aligning with intricate business rules. These services supported the backend of a significant Angular-based web application for a prominent client on the east coast. * Successfully utilized the **AI Model Efficiency Toolkit (AIMET)** to quantize deep learning models, achieving significant improvements in performance and efficiency, and demonstrating expertise in understanding and optimizing complex model architectures for seamless deployment in production environments. * Communicating project status update to various project partners, including team members and executives, synthesizing a multitude of issues into a clear, concise, and focused message. * Conducting comprehensive code development, providing constructive feedback to enforce best practices in code quality, maintainability, and consistency. Offered mentorship to junior developers, fostering a culture of continuous improvement. * Troubleshooting and resolving complex technical issues, ensuring system stability, and optimizing performance consistently. * Educating and coaching team on Agile methodology to achieve quality handover within time and cost guidelines. |  |
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