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

- Software Engineering
- Solution Designing
- Requirement Gathering & Analysis
- Software Development Lifecycle
- Process Excellence
- Risk Management
- Agile/ Scrum Methodology
- CI/CD Methodologies

🎓 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, R Statistics
- Django, Flask, Rest & Fast API, Selenium, BeautifulSoup
- C/C++, CMake, Static/Dynamic Linking
- Linux, Shell Scripting
- Apache Spark, Apache Kafka

👤 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.

- RDBMS, SQL and NoSQL, MySQL, PostgreSQL, MongoDB, Oracle
- Bitbucket & AWS Cloud, GitHub, Jira Ticket, Docker
- CNN, NLP, LLM, TensorFlow, PyTorch, Scikit-Learn
- NumPy, Tensor, Pandas, Matplotlib, Seaborn, SciPy, Torchvision Models
- HTML5, CSS, JavaScript, Node JS

Personal Details

Date of Birth: 19th Nov. 1998
Languages: English & Hindi
Address: Noida, India

- 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.