

# 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, Java, R, Statistics
- C/C++, CMake, Static/Dynamic Linking
- Linux, Shell Scripting
- Apache Spark, Apache Kafka
- RDBMS, SQL and NoSQL, MySQL, PostgreSQL, MongoDB

## 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.

- 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:** 19<sup>th</sup> Nov. 1998

**Languages:** English & Hindi

**Address:** Noida, India

- 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.