VIKAS PRAJAPATI
Software Engineer
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CAREER SUMMARY

As a Software Engineer at Multicoreware Inc., I leveraged my technical expertise and results-oriented approach to resolve complex problems, enhance customer satisfaction, and drive operational improvements, consistently delivering exceptional results while optimizing costs and increasing profits.

SKILLS AND STRENGTHS

- **Programming Language:** Shell Script, C/C++, CMake Script, Python, R, OOPs Concept, Data Structure & Algorithms, Code Review, Development, Testing, Debugging, Coding Standards (MISRA & AUTOSAR)
- **Operating System:** Linux/Unix, Windows, MacOS
- **Database:** MySQL, MongoDB, PostgreSQL, Oracle, Connectivity with Python
- **Frontends Technology:** HTML5, CSS, JavaScript, Flask, Django, Rest API, Fast API, Web Scraping
- **Big Data Technology:** Apache Spark, Apache Kafka
- **Deep Neural Network / Deep Learning:** CNN, NLP, Transformer, Transfer Learning, RNN, LSTM, LLM, PyTorch, TensorFlow, Torchvision Models, Image Classification / Detection / Segmentation
- **Version Control System & Cloud:** JIRA, Git Proficiency, GitHub, Docker, Kubernetes, AWS, Bitbucket
- **Soft Skills:** Agile Methodologies, Multi-Tasking, Keen Learner, Fast Learner, Problem Solver, Team Collaboration, Team Reporting, Documentation

PROFESSIONAL ACCOMPLISHMENTS

MulticorewareInc: Software Engineer, Chennai, India (Oct 2023 – April 2024)

- Utilized expertise in deep learning models, including MaxViT, 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.
- 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.
- 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.
- 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.

EDUCATION

- **PG Diploma in Big Data Analytics**
  CDAC Bengaluru   (March 2023 – Aug 2023)
- **Bachelor of Technology in Electronics and Communication Engineering**
  Dr. Rammanohar Lohia Avadh University, Ayodhya   (July 2018 – Oct 2022)

PROJECT: AI HEALTHCARE CHATBOT "CAREBOT"

- **Summary:** We designed and developed a user-centric interface for the AI-powered healthcare chatbot, "*Carebot*", enabling users to intuitively report health concerns, receive symptom-based disease information, and access valuable resources, including symptom diagnosis, disease information, and geographically optimized hospital recommendations, thereby streamlining healthcare access and support.
- **Technology:** Python 3.9, Pandas, NumPy, Matplotlib, Seaborn, NLP, HTML5, CSS, MySQL
- **ML Algorithm:** Decision Tree Classifier.