PRAVEEN KUMAR

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Objective	I am passionate IT professional indulged in a corporate environment for 3.5+ years. Working experience in NLP, Speech, Computer Vision domain. Seeking to leverage my experience and talent to help the organization evolve and augment my knowledge.
Skills	- Worked on End-to-End projects in Natural Language Processing, Speech Recognition & Computer Vision. - Knowing languages in Python, SQL, Unix CLI, and Pytorch. - Working knowledge and hands-on practice of CI/CD, API Integration, Git & GitHub, Docker & Docker-Compose, Deep Learning models in Production, and Anaconda. - Deep understanding of CNN, LSTM, GRU, Attention Models, CTC, and Transformer Architectures. - Conceptual and practical understanding of Data Analysis, Language Models, Hyper-parameters, Optimizations & Regularization. - Practitioner in Real Life Project execution, SDLC, and MLOps. Proficient in Docker containerization, model deployment, orchestration, and managing production environments on inhouse servers.
Experience	**Sr. AI Engineer @TrellisSoft** Jun 2023 – Present - Provide technical leadership by providing code reviews, mentoring Junior Engineers, code quality. - Effectively distributing tasks, aligning client requirements, and project deliverables by task tracking, timelines, and quality assurance. - Maintaining comprehensive coding documentation, user guides, and assisting with recruitment process. - Building scalable codes, optimizations, and deployment to production and development server with efficient coding. **AI Engineer @TrellisSoft** Jan 2020 – Jun 2023 - TrellisSoft is a customer-centric AI company based in California, USA, delivering AI solutions to private and government sectors in the domain of sales, healthcare, and blockchain. - Responsible for designing & developing multilingual models, Voice Analytics, and Sentiment Analysis Systems, and OCR Systems with core MLOps concepts. - Created Data Flow & Model Pipelines for Semi-Supervised Learning processes with CI/CD. - Worked on Kaldi Speaker Diarization, Speech Recognition, & Text Analytics. - Hands on SQL queries with PostgreSQL and MySQL Server DBMS.
Projects	**Document Question Answering using OCR** Dec 2022 – Mar 2023 - Document based Question Answering using OCR capable of providing answers to questions based on an Image document. Helped in resource management for automating tasks with Semi-Supervised Model design. - Trained character recognition model on domain data to enhance detection over handwritten and computerized image data. Ensembled the character model with the 'Alberta' QA model for extracting relevant data based on questions. - Created python script for handling high volume customer data to generate mapping from extracted details. **Machine Translation Framework using Encoder-Decoder Architecture** Sep 2022 – Dec 2022 - Build a Semi-Supervised Translation framework for utilizing open-sourced models to generate, train, evaluate, and test machine translation task based on BLEU Score. - Trained Bi-Directional models from X⇔Y using same framework. Orchestrated the integration of the trained machine translation model within Docker containers, enabling seamless deployment and scalability for production use, resulting in improved efficiency and resource utilization. - Successfully replaced Google Translation API cost by 100% while maintain high translation accuracy, facilitating cost-effective & sustainable capabilities.
Education	**MVJ College of Engineering** Aug 2016 – July 2020 - Specialization in "Computer Science and Engineering". - Attained an 8.0 GPA on a scale of 10 GPA.
Achievements	- "Best Mentor" and "Excellent Project Deliverables" award in 2023 for Employee Training & OCR System. - "Brainiac of the Quarter-2 2022" at TrellisSoft for Innovation in Speech Data Augmentation. - "Rising Employee of the Year 2020" at TrellisSoft for ASR & NLP Innovations.
Habit/Interest	- Editor and Writer of Analytics Vidya Publication on Medium. - Playing football & FIFA. Huge Fan of 'Lionel Andres Messi'.