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Deekshith Dade

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Summary

Over 3 years of experience in software development and research with proficiency in Deep Learning and Web Dev. Ability to collaborate with talented teams and contribute to cutting-edge projects, leveraging technical expertise and research acumen to deliver impactful solutions with the ability to master new technologies and adapt to evolving tech stacks quickly.

Skills

- Programming Languages: Python, C++, Java, JavaScript, TypeScript, Go, Node.js
- Data Science and Machine Learning: Statistics, Probability, Scikit-Learn, Pandas, Numpy, Matplotlib, Pyspark, OpenCV
- Frameworks: Pytorch, Tensorflow, ReactJS, Flask, Django, Spring, Spring Boot
- Cloud Technologies: Amazon Web Services(AWS), Microsoft Azure, Google Cloud Platform(GCP)

Work Experience

Scientific Computing and Imaging Institute @ University of Utah **Jan 2024 - Current**
Graduate Research Assistant *Salt Lake City, United States*

- Performed a survey of augmentations on Electrocardiogram by implementing multiple augmentations for time series data from the literature, trained on a self-supervised momentum contrast(MoCo) framework published by Facebook AI Research(FAIR), which is set to publish in October in Computing in Cardiology Conference(CinC) 2024.
- Implemented a novel self-supervised learning architecture with a sophisticated contrastive learning setup for Learning Electrocardiogram representations with unlabelled data, resulting in 10% labeled data on a pre-trained model, producing performance equivalent to a 100% labeled supervised model in the area under the receiver operating characteristic (ROC) curve (AUC) metric.
- Currently working on a novel interpretability method for ECG-Classification models by modifying the Generative Adversarial Networks(GAN) system to produce interpretations as modifications to the signal.

ZS Associates **Jul 2022 – Jul 2023**
Business Technology Solutions Associate *Bangalore, India*

- Worked on company's proprietary software - which uses advanced data processing using Hadoop - to build efficient data pipelines for client's marketing requirements
- Designed Customer centric marketing for big pharma clients based on data from various vendors.
- Deployed field suggestions and resource optimized recommendations for sales representatives for multiple clients building data pipelines from scratch using pharma data from various data vendors and configured user interface through Zaidyn FI and/or Veeva CRM app for client's sales representative's efficient insights and usage
- Built a data pipeline for providing dynamic insights for sales representatives which takes into account the actions and the feedback the representatives provide and produce more efficient actions for the next cycle of customer interactions

ZS Associates **Jan 2022 – July 2022**
Business Technology Solutions Associate Intern *Bangalore, India*

- Led the development pipeline for a client's marketing campaign focused on promoting a new product utilizing machine learning to optimize omnichannel marketing strategies. Achieved a 20% increase in initial sales beyond projections.
- Rapidly learned and integrated new tools into the development workflow and optimized existing code to streamline processes. These improvements led to around 25% reduction in deployment time, enhancing overall pipeline efficiency

Education

University of Utah **August 2023 - Present**
Masters in Computer Science GPA: 3.83 *Utah, United States*

Projects

Assess Transformers' ability to classify long documents

- Conducted a survey on various transformer models to evaluate their performance in classifying long documents. The study compared simpler models like BERT and DistilBERT with more complex models such as Longformer, GPT-2, and ToBERT across four datasets of varying sizes and domains.
- The findings revealed that simpler models often performed as well as, or better than, their more complex counterparts. Notably, DistilBERT, with 70M parameters, outperformed GPT-2, which has 127M parameters, in four out of six classification tasks by about 2%.

Smart Crop Prediction

- Created a sophisticated system integrating NodeMCU hardware and sensors to collect environmental data, which is uploaded to Firebase for real-time analysis.
- Developed a Flask-based web application that utilizes the Firebase API and machine learning algorithms to predict optimal crop choices.