Sreevani Basvaraj Patil

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Education

University of Colorado Boulder	Aug 2022 – May 2024
Master's in Data Science	Boulder, CO
Vishveshvaraya Technological University	Aug 2013 – May 2017
Bachelor's in Computer Science	Bengaluru, India

Skills

Software/Tools: AWS(Lambda, S3, EC2, boto3 client, SQS, AWS Sagemaker, AWS transcribe, API gateway), Jupyter, Git, Gitlab, JIRA, ELK stack, Linux, Grafana, Power BI, Tableau, Slack, Rundeck , Looker, Advanced in SQL, Javascript, HTML/CSS, Java, MATLAB, R, Python [Pandas, NumPy, Scikit-learn, NLTK,Keras,Pytorch,Tensorflow,spaCy,seaborn,Pyspark], MS Excel, Azure Cognitive services

Data Science: Machine learning, Neural Networks, Deep learning,Recommendation engine, LLMs, Transformers,Hugging face, MLOps, BERT, NLP, LLMOps, RLHF/RLAIF, Reinforcement learning

Industry knowledge: GCP, Azure cognitive services, Git, CI/CD, Eclipse, Jupyter, Git, Gitlab, JIRA, Slack, Docker, Ansible Language Models: OpenAI, Gemma, LLM, Small language models

Experience

NLP Research Intern   May 2023 – Nov 2023
ScribeEMR   Boston, MA

- Customized a Language Model for medical vocabulary of 15,000 words leveraging biomedical models such as BioBERT and PubMED (including HealthSea and BioNLP models).
- Employed advanced NLP/NLU techniques to enhance the tool, resulting in a 20% improvement in response accuracy.
- Continuously optimized response quality using reinforcement learning, leading to a 15% increase in user satisfaction.
- Enhanced the quality of audio data by 15% by using Whisper, Speaker Diarization, and tone-based segmentation

Software Engineer - Automation   Jan 2019 – Jun 2022
CGI Group   Bengaluru, India

- Spearheaded a automation team, leveraging agile methodologies to slash project timelines by 90% through seamless collaboration across departments.
- Optimized predictive modeling for streamlined application deployment, achieving a notable 20% increase in speed.
- Architected a robust web application utilizing ReactJS and Django framework, integrating Grafana for centralized system monitoring, sanity testing, and data visualizations reducing application evaluation processing time by 70%.
- Revolutionized reporting processes through in-house Python automation, culminating in a remarkable 75% reduction in report generation time.

Service Engineer - Automation   Jan 2018 – Dec 2018
Microland   Bengaluru, India

- Engineered incident process with AWS services (Lambda, S3, boto3, CloudWatch, SQS, VPC, EC2, API Gateway) and Restful API, reducing MTTR by saving 700 hours monthly.
- Spearheaded RPA workflow orchestration, optimizing efficiency by 30%, and led Terraform development for AWS infrastructure management, resulting in a 20% reduction in operational costs.

Projects

Emolyzer | Python, Classification, Deep learning algorithms, Signal Processing, Audio processing, HTML, CSS
- Enhanced speech emotion analysis on the IEMOCAP Audio dataset through advanced feature engineering and evaluation with ANN, CNN, and RNN LSTM, yielding a 10% increase in accuracy from baselines.

My Recipe - Food Recommendation Bot | Python, Git, Streamlit, LangChain, LLM, OpenAI, Vector database
- Developed a Streamlit application empowered by LangChain and Pinecone-hosted vector database, leveraging LLM's to deliver personalized recipe recommendations.

Leadership Achievements

- Garnered the Bronze Award by spearheading the development of a service integration dashboard, resulting in a 20% increase in operational efficiency.
- Recognized with the Leadership and Respect Applaud for adeptly guiding the team, leading to a 15% reduction in project turnaround time.
- Secured the Partnership and Quality Award for streamlining critical report automation, leading to a 30% decrease in error rates and a 25
- Actively volunteered and engaged in Corporate Social Responsibility initiatives within CGI Group, contributing 50+ hours to community outreach programs.