

Chaitra Vishweshwaraiah

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6+ years of industry experience with expertise in building data applications and deriving actionable insights from data

SKILLS

Programming Languages: Python, SQL, Java, Power Query, Typescript

Data Science: Classification, Regression, Clustering, Anomaly Detection, LLM, NLP, Knowledge Graphs, RAG

ML Libraries: Pandas, Numpy, Open AI GPT models, Langchain, Pycaret, Spacy, Scikit-learn, Keras, Tensorflow, Pytorch, Beautiful Soup, Matplotlib, NLTK, Statistical Modeling, Forecasting, git

Visualization: PowerBI, Grafana, Streamlit, Flask, Tableau, MS Excel, MS PowerPoint, HTML, Django

Others: Azure Databricks, Spark, Airflow, AWS, Pinecone, Pyspark, Ansible, Jenkins, Hugging Face, selenium, ETL

WORK EXPERIENCE

Honeywell International Inc

Jan 2024 – Present

Software Engineer Intern – Java | SQL | Python | Pyspark | Hive | Airflow

* Enhanced security features and data models, resulting in 25% decrease in security breaches and improved client trust.

* Improved Honeywell route manager reliability by 10%, thereby minimizing unexpected downtime for customers.

KPMG US LLP

Jun 2023 – Aug 2023

Data Engineer Intern - GPT- 4 LLM | Langchain | Vector Database | Prompt Engineering | Databricks

* Achieved semantic search for tax documents facilitating information retrieval using Generative AI.

* Developed data pipeline utilizing Azure Document Intelligence, with 30% reduction in data processing time.

BLP Industry.AI

Apr 2019 – Jul 2022

Data Scientist - Python | ML | Influx DB | Grafana | Hive | Selenium

* Developed, evaluated, optimized, and maintained production codes for Machine Learning algorithms of Solar Power Generation and Wind Turbine datasets reducing maintenance cost by 20%

* Saved 6 hours/week of engineering time by eliminating traditional manual processes through the development of an ML model and NLP solution from raw data to a structured database for analytics.

* Managed team to execute web scraping solution with 95% data extraction efficiency, providing crucial Air Quality Index data for ML operations resulting in improved decision-making and forecasting.

PRICEWATERHOUSE COOPERS LLP

Aug 2015 – Mar 2018

Data Analyst - SQL | Python | Power BI | GitHub

* Enhanced detection scenarios from 20 to 36 for an Anti-Money laundering project (AML) for Risk Management and enabling Fraud Detection of a finance-based client and automated AML process

* Engaged clients in addressing data quality issues, conducted EDA to obtain Insights using Statistics, and crafted interactive dashboards with visualizations, enhancing data-informed decision-making.

Awards: Consecutive Quarter Instant Recognition for exceptional performance.

PROJECTS

ML Podcast Generator - Finetuned GPT | Text-to-Speech | Hugging Face | Generative AI | Open AI API

*Finetune GPT-3.5-turbo to transcribe the text for the podcast, implemented eleven lab TTS for voice generation with customizable male and female voices to generate podcast for Machine Learning with minimum human intervention.

Skip To a Human [2nd runner up of AI for Good Hackathon] Twilio API | Speech-to-Text | GPT-4 | CRM

*Developed bot which talks to automated calls and reduce users wait time to speak to Customer sales representative.

*Users simply input the customer service number they're trying to reach, and our app bypasses the automated IVR systems, directly connecting them to a human being improving customer relationship management.

Poem Generation POS Tagging | NLP | Topic Modelling | Knowledge Graphs

Employed NLP methods, including topic modeling and semantic textual similarity, to craft poems mirroring the caliber and essence of Pushcart Prize-nominated poems.

Health Club - React [Typescript] | Bootstrap | Django | PostgreSQL | AWS Cloud | Docker | Figma

*Designed, developed gym website using React, Django and deployed it on AWS EC2 for seamless accessibility ensuring agile project management through Atlassian JIRA's Scrum framework.

Reinforcement Learning for Self-Driving Cars - Deep Learning | Python | Pygame Simulation

*Spearheaded reinforcement learning model to train a self-driving car-agent with Deep Q network by passing Vehicle-to-Vehicle data into the CNN, to improve road time efficiency by maximizing the speed.

Echo Sight - Open AI Vision Model | AWS EC2 | Cloud TTS | Flutter | Mobile App Development

*Programmed flutter mobile application to assist visually challenged person using Open AI Vision model

EDUCATION:

San José State University, MS in Software Engineering:

GPA: 3.8

Teaching Assistant for Machine learning Course to MS in Data Science guided by Dr. Ali Arsanjani

Coursework - Data Mining, Web Mining, Machine Learning, Deep Learning, Software System Engineering, Enterprise Software Platforms, Reinforcement Learning

VTU, BS in Information Technology

GPA: 3.5

Coursework - Data Structure and Algorithms, Computer Science, Databases, Cloud Computing, Computer Architecture