

UJWAL KANDI

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WORK EXPERIENCE

Dover Fueling Solutions – Summer Engineering Intern, Austin, TX Jun 2024 – Present

- Enhanced observability by improving log analytics in APIM, set up alerts, and dashboards in Grafana to monitor key metrics
- Developed a lightweight, offline-capable multi-agent AI assistant for edge devices, automating preliminary diagnostics and anomaly detection. Integrated SQLite and data visualization tools for efficient log analysis under resource constraints.
- Integrated the agentic troubleshooting system with a locally run LLM for inference, enhancing on-site decision-making capabilities

Stronghold Investment Management – IT Capstone Project, Austin, TX Dec 2023 – Apr 2024

- Designed and implemented a custom-built AI agent over Azure AI Studio, integrating OCR and LLM models to enhance ownership verification processes and automate complex document workflows
- Reduced document processing costs by 20% by implementing an automated document intelligence system for document analysis

Epsilon – Data Programmer I, Bengaluru, India Aug 2021 – Jul 2023

- Managed data ingestion processes within the Epsilon ecosystem, collaborating with clients to address their requirements effectively using tools such as AWS, SnapLogic, Matillion ETL, Jira, and ServiceNow etc.
- Built data pipelines for new clients and supervised production servers of 16+ clients (Unilever, Marriott, BofA, Disney, NatGeo)
- Implemented comprehensive monitoring with Dynatrace and Kibana to ensure pipeline health and enable rapid failure response across the AWS Redshift environments
- Handled client's first-party data and automated 50+ ETL batch jobs to create a production-like test environment, significantly improving testing outcomes by utilizing the most recent data

Production Support Engineer, Bengaluru, India Apr 2022 – Jul 2023

- Collaborated with the TechOps team to provide production support, manage data flow between products, and perform file cleanup, acted as a liaison between client-facing teams and Engineering
- Executed data quality tasks and emergency fixes when detected, leading to a customer satisfaction rate of 93%, primarily due to short-notice rapid troubleshooting and hotfixes
- Achieved 89% performance improvement by optimizing the long-running batch jobs in coordination with the Technical Lead

TECHNICAL SKILLS

- Languages:** Python, SQL, HTML/CSS, Java, R, Git, XML, Linux, SQLite
- Libraries:** Flask, NumPy, Pandas, matplotlib, Seaborn, Plotly, Beautiful Soup, Scikit-Learn, GeoPandas, Folium, TensorFlow/Keras
- Big Data Tools:** AWS/Azure, PySpark, MongoDB, MapReduce, Hadoop, Kafka, Redshift, Docker, Tableau, Excel, Airflow, Power BI
- AI/ML Tools:** LangChain, Ollama, FAISS, Pinecone, OpenWeb UI, Hugging Face Transformers, PyTorch, LangSmith

EDUCATION

University of Texas at Austin - Master of Science, Information Technology & Management May 2024

- Coursework: Business Data Science, Data Management, Big Data & Distributed Programming, Unstructured Data Analytics, Data Product Lifecycle Management, Strategic Change & IT Management, Data Governance and Responsible AI, Advanced Programming/App Development

KL University - Bachelor of Technology, Computer Engineering | Spec. in Data Analytics May 2020

- Named Department Topper and placed on Dean's List for outstanding academic excellence

TECHNICAL PROJECTS

Personal AI Knowledge Management System

- Utilized SentenceTransformer models to implement embedding and semantic search, enabling efficient information retrieval
- Developed a multi-agent system to extract and manage content from files, enhancing integration within the knowledge base

Yelp Reviews Recommendation System | Desi Dine Scores

- Engineered a recommender system using custom scraper, and sentiment analysis (NLTK) for data-driven menu optimization
- Acted as a culinary consulting team to optimize menu/services in 3 restaurants through actionable insights gained from the system

Customer Characterization & Profiling using Agglomerative Hierarchical Clustering

- Conducted comprehensive analysis of client habits, demographics, and marketing responses with different clustering techniques
- Opted for Agglomerative Hierarchical Clustering over KMeans, for deeper insights into customer segments

LEADERSHIP & ACHIEVEMENTS

Dover Fueling Solutions Hackathon'24 – Annual Hackathon, Dover Fueling Solutions Feb 2024

- Won first place at the Dover Fueling Solutions' annual hackathon held at their headquarters, leading the smallest team to victory by leveraging LLM models and Edge Computing to develop a conversational AI model

- Presented a demo of our solution at the DFS User Conference and managed an exhibitor booth alongside industry leaders

MSITM Campus Ambassador – *Texas McCombs School of Business, UT Austin*

Aug 2023 – May 2024

- Served as a Student Ambassador, guided prospective students, and fostered connections within the Texas McCombs community

HACKSciCom 2022 – *Annual Hackathon, MIT Hacking Medicine*

May 2022

- Finalist in the prestigious annual hackathon co-hosted by MIT and Roche; built data pipelines with a globally distributed team

THRUSANG'20 – *Core Student Lead, KL University*

Spring 2020

- Led a group of 40 editors/organizers/volunteers as head of the Design and Broadcasting team for the annual college fest
- Organized technical workshops and soft-skills training sessions, participated by 800+ students from nearby schools

University Innovation Fellows – *International Fellowship Program, Stanford d.school*

Jan 2018 – Dec 2020

- One of two students selected for the program in college by Stanford's d.school and conducted workshops/sprints on Design Thinking, Rapid Prototyping, Moonshot Thinking & other problem-solving frameworks reaching over 1000+ university students
- Initiated peer mentoring and technical clubs (20% academic weightage) and received a scholarship to attend Silicon Valley Meetup at Stanford, Google, and Microsoft for experimental workshops and immersive learning