Praveen Kumar Uttangi

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Experience

Dexcom May 2024 – December 2024

Data Analyst Intern II - AI *Remote (Dallas), USA*

- Designed and deployed NLP pipeline with FLAN-T5 LLM for summarizing 1M+ survey responses, optimizing model selection and hyperparameters to reduce analysis time by 85% and save $135K annually.
- Fine-tuned and optimized a DistilBERT text classification model using PyTorch and MLflow, achieving 94% accuracy while integrating automated MLOps practices for monitoring and model performance tracking.
- Architected a custom prompt engineering framework for Qwen2.5-1.5B-Instruct LLM, leveraging few-shot learning and chain-of-thought reasoning to automate SMART goal evaluation, reducing review meetings by 40%.

Rapido February 2022 – August 2023

Senior Data Analyst *Bengaluru, India*

- Led ML-driven A/B testing initiatives using Python, PySpark and SQL, designing statistical validation frameworks and mentoring junior analysts, increasing rider acceptance by 75% and reducing rider costs by 24%.
- Devised a subscription pricing model using predictive modeling and statistical techniques, leading analysis from data collection to stakeholder presentations and increasing customer retention by 40% and ride frequency by 60%.
- Directed user behavior analysis using SQL, PySpark, and Power BI, processing millions of daily transactions, leading a team of 3 analysts, and streamlining reporting processes, driving a 27% increase in completed orders.

Cultyvate February 2020 – December 2021

Data Analyst *Bengaluru, India*

- Evaluated irrigation patterns for 100,000 farmers, leveraging Azure Functions to process sensor data, extract insights, and build predictive models, improving irrigation timing accuracy by 60% and farmer income by 50%.
- Conducted advanced statistical analysis (regression, time series) on farming data using Python and SQL, optimizing water resource allocation and reducing water waste by 40%, which helped secure $600,000 in seed funding.
- Built 15+ interactive Power BI dashboards to analyze real-time irrigation data for 10,000+ farmers, enabling data-driven scheduling that reduced water waste by 35% and increased crop yields by 25%.

Konigtronics November 2017 – January 2020

Technical Support Engineer - Data Science *Bengaluru, India*

- Implemented ETL pipelines using Python and SQL to integrate data from multiple sources (APIs, databases, CSVs) into a centralized data warehouse, improving data quality by 40% and reducing processing time by 60%.
- Automated data validation and reporting in Python, optimizing workflows and increasing team efficiency by 30%.
- Created PoC for a new automation tool, leading to its adoption and reducing manual processing time by 40%.

Technical Skills

Certifications: Fundamentals of AI Agents, Generative AI with LLMs, Machine Learning Specialization, NLP with Python for Machine Learning, AWS Cloud Practitioner, Azure AI Fundamentals.
Languages: Python, SQL, R | **Frameworks**: TensorFlow 2, PyTorch, PySpark, Langchain, LangGraph
Databases: MySQL, PostgreSQL, MongoDB | **Vector Databases**: Qdrant, ChromaDB | **Visualization Tools**: Power BI, Tableau | **Data Warehouse**: BigQuery, Snowflake | **MLOps and Cloud Platforms**: MLflow, AWS SageMaker, AWS, GCP, Azure | **Libraries**: Transformers, NLTK, Keras, Pandas, Scikit-learn | **Tools**: Excel, Apache Hive | **Statistical Skills**: Descriptive and Inferential statistics, Hypothesis testing and A/B testing

Education

The University of Texas at Dallas August 2023 – May 2025

Master of Science in Business Analytics and Artificial Intelligence *GPA:3.76/4*

Siddaganga Institute of Technology June 2012 – August 2016

Bachelor of Science in Computer Science and Engineering *GPA:3.60/4*

Projects

AI Agent for Autonomous Biomedical Literature Mining March 2025 – April 2025

∗ Designed an autonomous AI agent using LangChain, OpenAI GPT and PubMed API to extract gene–disease–drug insights, reducing manual research time by 80% and supporting precision medicine use cases.

Prompt Engineering for Automated Text Labeling in TAPS Care September 2024 – October 2024

∗ Applied prompt engineering techniques combined with a Multinomial Naive Bayes model to predict text labels in TAPS Care, achieving a 90% F1 score and reducing manual intervention time by 95%.