

# Suryakailash Ramesh

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## PROFESSIONAL SUMMARY

Data Scientist & BI Engineer specializing in building scalable data infrastructure and predictive analytics. I design end-to-end pipelines for data processing, develop ML models to improve system performance, and create real-time dashboards to drive data-driven decision making. Expertise in Python, Azure, Power BI, and ML model development.

## SKILLS

Data & Analytics • ETL/ELT • Data Validation & Quality • Data Modelling • Applied Statistics • Qualitative Research • BI & Reporting • Tableau • Power BI • Power Query • Power Pivot • Excel • SQL • R • Python (FastAPI, Flask) • RESTful service design • Azure Data Factory • Azure Data Explorer • Azure Functions • Microsoft Fabric • Machine Learning & AI • Machine Learning • Deep Learning • NLP • LLMs • Scikit-learn • XGBoost • Data Science • Software Engineering • Python • Azure • Power BI • Jira • Visual Studio • Linux • Postman

## PROFESSIONAL EXPERIENCE

### AI Developer | Qjump.AI | Redmond, Washington, United States | -

- Built telemetry-driven analytics infrastructure to track system uptime, latency, and error propagation across distributed services.
- Automated data ingestion and transformation pipelines (Python, SQL, Azure Data Factory), handling structured and semi-structured data at scale.
- Deployed forecasting models (XGBoost) for usage and capacity trends, improving prediction accuracy by 20% and enabling proactive scaling.
- Integrated anomaly-detection scripts for performance metrics, reducing manual debugging time by 45%.
- Designed and deployed real-time Power BI dashboards with automated alerts, enhancing visibility of operational KPIs by 60%.

### Search Language Model Developer | Shoperies NE LLC | Redmond, Washington, United States | -

- Developed an advanced semantic search model using LLM language model, enhancing search accuracy and user satisfaction by accurately capturing user intent and delivering relevant results.
- Selected LLM for its efficiency and semantic understanding capabilities, fine-tuned with domain-specific data, and implemented to improve semantic processing of queries.
- Established a benchmark using metrics such as precision, recall, Mean Average Precision (MAP), and Normalized Discounted Cumulative Gain (NDCG), demonstrating approximately 30% higher accuracy than the existing search solution.
- Notably excelled in handling complex queries requiring deeper semantic understanding.
- Skills: GPT, GPT-4, LLM, Semantic Search, Machine Learning, Data Analysis, Python, Azure Databricks

## EDUCATION

## PROJECTS

### **NASA Space App Challenge**

Developed a car controlled by eye-tracking for autonomous driving, utilizing sensor data and machine learning algorithms.

Technologies: Python, Azure Stream Analytics, Azure Blob Storage, Central IoT

## CERTIFICATIONS

### **Azure Fundamentals (AZ-900)** | Microsoft

## AWARDS & HONORS

**Gamified Performer** | Accenture

**Top 10 Icon of ECE** | SRMIST