

PAVAN RAJ K G

Data Scientist

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[GitHub](#) | [Linkedin](#)

EDUCATION

Jain University

Data Science Master of Computer Applications

GPA: 8.71

Bengaluru

July 2022 - July 2024

EXPERIENCE

Kine.ai | Data Scientist-II

Bengaluru | Jan 2025 - Present

Project: Agentic AI & ML Solutions for Productivity and Predictive Intelligence

Technologies: Python, PyTorch, scikit-learn, SQL, Langchain, LangGraph, Ollama, AWS, Azure, CI/CD, Kubernetes, Streamlit, MLFlow, NLP, RAG, Docker, Git

Description:

Led development of AI and ML systems to boost organizational productivity through predictive analytics, anomaly detection, and an intelligent RAG chatbot with auto-insight generation.

Roles & Responsibilities:

- Developed and maintained **sprint-level predictive models** to forecast task/bug completion timelines, improving sprint planning accuracy.
- Built **velocity anomaly detection models** to analyze sprint trends, identify deviations, and automate **nudge notifications** to teams.
- Designed a **RAG-based agentic chatbot** that auto-generates SQL, queries databases, derives insights, and provides actionable suggestions to users.
- Spearheaded data preparation: quality assessment, transformation, and validation for training pipelines.
- Built predictive models using PyTorch and scikit-learn for operational optimization.
- Deployed real-time inference APIs with CI/CD, Docker, and Kubernetes.
- Architected scalable AI services.
- Implemented MLOps best practices: model benchmarking, monitoring, versioning, and retraining automation.
- Applied software engineering standards: Git-based version control, modular codebase, and unit testing.

Strategic Infra Services | GIS, MIS & IT Specialist Watershed Development Department (contractual) | Aug 2022 - Jan 2025

Project: REWARD

Technologies: Python, ArcGIS, Power BI, QGIS, LLMs, Deep Learning, PostgreSQL

Roles & Responsibilities:

- Assisted in the design and development of **9 Decision Support Systems (DSS)** under REWARD, covering soil health, crop selection, nutrient management, surface runoff, and water budgeting to improve agricultural planning and watershed management.
- Increased forecasting accuracy by 25% through deep learning applied to geospatial and agricultural data.
- Improved geospatial pattern recognition by 20% via spatial data modeling.
- Co-developed an NLP-powered agro-advisory chatbot using LLMs to deliver 40% faster query resolution to farmers and planners.
- Built interactive MIS dashboards in Power BI, reducing report turnaround time by 40%.
- Automated repetitive workflows using **Python scripting** to improve data processing efficiency.

PANNAGA ENTERPRISES | GIS, MIS & IT Assistant (contractual) | Aug 2021 - July 2022

Watershed Development Department

Project: REWARD (Rejuvenating Watershed for Agricultural Resilience Through Innovative Development)

Technologies: ArcGIS, QGIS, SQL, MIS Systems, Excel

Roles & Responsibilities:

- Maintained and updated GIS datasets, spatial databases, and visual reports.
- Conducted spatial analysis and produced high-quality maps for stakeholders.
- Assisted in MIS performance monitoring and resolved technical issues.

Technosys (India) | Business Analyst

Bengaluru | Feb 2017 - Oct 2020

Technologies: Python, Excel, MySQL, IndiaMart, Justdial, Trade India

Roles & Responsibilities:

- Analyzed and managed customer data for over 300 machinery types, yielding insights that informed strategic marketing and improved customer relations.
- Led data-driven marketing strategies on IndiaMart, Justdial, and Trade India, contributing to a boost in customer acquisition and retention.
- Developed and optimized data models in Python and Excel, increasing operational efficiency by 20% through actionable insights.
- Established monitoring frameworks to evaluate KPIs and supported process optimization, enhancing strategic planning efforts across departments.

SKILLS

Programming Languages:	Python, SQL
Libraries/Frameworks:	Scikit-learn, PyTorch, streamlit, PySpark, pandas, arcpy, Langchain, ollama, langGraph, Predictive Modeling, Machine Learning
Tools / Platforms:	Power BI, ArcGIS, QGIS, Looker Studio, Data Bricks, AWS, Excel, predictive modeling, Machine Learning, Git, kubernetes, Docker, jira
Databases:	postgres, mssql, ChromaDB

CERTIFICATIONS

- Career Essentials in Data Analysis - **Microsoft and LinkedIn**
- Applied Data Science with Python - Level 2 - **IBM**
- Data Analysis with Python - **IBM Skill Build**
- Spatial Data Science - ESRI.
- ArcGIS Pro: Essential Workflows - ESRI.