

Sreehari Pradeep Kumar

MSC. DATA SCIENCE

MANNHEIM, BADEN-WÜRTTEMBERG, GERMANY

✉ sreeharipradeepkumar1996@gmail.com | linkedin.com/in/sreeharipradeep | github.com/sreehari59 | +4917688459397



Summary

Experienced Data Scientist with a demonstrated history of working in the information technology, retail and services industry. With over 4 years of experience in Data Science, Natural Language Processing (NLP), Machine Learning (ML), and Deep Learning. Strong engineering professional with a Master's degree focused on Data Science.

Work Experience

AI Mentor

SARTECH LABS

India

03/2025 - Present

- Conducting learning sessions on LLMs, Multi Agents using N8N, Zapier, AutoGen, CrewAI & python

AI ENGINEER

DPS-UNTERNEHMERTUM, DEUTSCHES ROTES KREUZ

Munich, Germany

09/2024 - 12/2024

- 96% efficiency achieved by RAG and CrewAI Multi Agents for LLM guardrails, table parsing, and vLLM for 1000+ docs.
- Refined deployment efficiency with a Dockerized container with CI/CD utilizing Langchain & vector DB within 4 weeks.
- Increased user satisfaction by 40% through user testing, LLM evaluation and stakeholder PoCs within 6 weeks

Technology: Langchain, Llama, Qdrant, Docker, Qwen, Coolify, FastAPI, Vertex AI Studio, PostgreSQL, DBeaver

NLP ENGINEER, STUDENT ASSISTANT

PHILIPPS UNIVERSITY MARBURG & ZEW

Mannheim, Germany

06/2023 - 09/2024

- Improved data analyzing efficiency by 70% with a RAG solution and NER agents for 1.4M policies during 4 months.
- Enhanced boilerplate detection of German privacy policy by 90% pre & post GDPR system within 5 months.
- Productive scraping of 7.5M docs with AWS orchestration & SQL-BigQuery analysis for 662K firms under 2 months.

Technology: spacy, Docker, GitLab, AWS, EKS, LongformerTransformer, Weights & Biases, HuggingFace, R

DATA SCIENTIST, WORKING STUDENT

WÜRTH-GRUPPE

Künzelsau, Germany

09/2022 - 03/2023

- Improved accuracy for 1.5M customers with XGBoost, Ensemble models and neural networks within 3 months.
- Elevated stakeholder insights with interactive tool for customer segmentation using PCA & Autoencoder in 2 months.
- Optimized ML pipelines for business use cases, enhancing processing speed by 80% within 2 months.

Technology: Git, Pytorch, MLflow, SHAP, MongoDB, Seaborn, Matplotlib, Hyperparameter Tuning, Plotly

DATA SCIENCE INTERN

WÜRTH-GRUPPE

Künzelsau, Germany

06/2022 - 09/2022

- Built Hybrid Recommendation System with 75% accuracy using deep neural networks in over 2 months.
- Maximized sales insights with a cross-selling analysis using SQL, PySpark, and Scikit-learn within 2 months.
- Engineered ML pipelines for data integration to deployment for recommendation system in 4 weeks.

Technology: Git, Pytorch, MLflow, MySQL, MongoDB, Surprise, pycaret, Pandas, Numpy

SYSTEM ENGINEER

TATA CONSULTANCY SERVICE

India

11/2018 - 08/2021

- Aligned with over 4+ technical and non-technical stakeholders for requirement and PoCs.
- Accelerated deployment by 50% with CI/CD pipelines and ML model monitoring within 3 months.
- Reduced testing time by 90% with automation scripts using Selenium and Java in 5 months.

Technology: Git, Pytorch, MLflow, MySQL, BERT, Eclipse, Kubernetes, Jenkins, Docker, Python, Java

Education

Universität Mannheim
MASTER IN DATA SCIENCE

Mannheim, Deutschland
09/2021 - 06/2024

- Master Thesis: Out of Distribution Detection for Textual Product offers[RoBERTa, Contrastive Learning] [↗](#)
- Deep Learning, Advance Text Analytics, Computer Vision, Generative AI, Advanced Software Engineering

Mar Athanasius College of Engineering
BACHELORS IN ELECTRONICS & COMMUNICATION ENGINEERING

Kerala, India
08/2014 - 08/2018

Computer & Embedded Programming, Applications of Micro controller & Microprocessor

Skills

Programming Languages: Python, JAVA, C, R

Database & Cloud: PostgreSQL, VectorDB, MongoDB, AWS (S3, EC2, lambda, Bedrock, SageMaker)

Framework: Pytorch, HuggingFace, LangChain, LangGraph, LLMOps, MLOps

Project Management: Agile/Scrum, JIRA, Confluence

Projects

AI-IT-Support-Agent [↗](#)
AI-IT-SUPPORT-AGENT

- An AI IT Support Assistant for IT help desk providing over 70% effectiveness
- **Technology:** Streamlit, Llama 3.1, HuggingFace, TogetherAI, Langchain, Qdrant

Water Damage Detection [↗](#)
REAL TIME WATER DAMAGE DETECTION FOR CLAIM ASSESSMENT AND ESTIMATE POTENTIAL PAYOUTS.

- Application for water damage detection system for the BEARING POINT company.
- **Technology:** U-Net(image segmentation), pycaret, feature engineering, AWS, Streamlit, scikit-learn, SHAP

ZENIX [↗](#)
CHATBOT POWERED BY AGENTIC AI

- Multi-Agentic chatbot for Business Object creation and information management platform navigation gaining 85% productivity in user workflow
- **Technology:** Streamlit, Deepseek-OpenAI-LLM guardrails Agents, Langchain, ChromaDB

IntelliSafe [↗](#)
AN INTELLIGENT VEHICLE SUBSCRIPTION SYSTEM THAT PROVIDES REAL TIME SMART ASSISTANCE

- A Pub/Sub based decentralized driving assistance system alerting drivers & reducing collisions by 70%
- **Technology:** YOLOv5, LIDAR, Data integration to ingestion with Eclipse eCAL, Multimodal sensor data

Language Skills

- English (C1 | Proficient or Native User)
- German (B1 | Intermediate)

Awards and Volunteering

Jan, 2025 **First Runner Up Hackathon@WEF**, Davos

Aug, 2024 **Winner DMI Theme JIVs Hackathon**, Kreuzlingen

Nov, 2023 **Runner Up STADS Datathon**, Mannheim

Nov, 2023 **Finalist Eclipse SDV Hackathon**, Munich

Mar, 2023 **Graduation scholarship**, Mannheim

Mar, 2020 **Maitree Award Tata Consultancy Service**, for outstanding contribution to the organization

Switzerland
Switzerland
Germany
Germany
Germany
India