

# GANESH MAHADEV UDATA

Limfjordsgränd 4, lgh 1102, Kista, Sweden

☎ +46763405632 ✉ [ganeshmahadev2463@gmail.com](mailto:ganeshmahadev2463@gmail.com) 🌐 [www.linkedin.com/in/ganesh-mahadev-b95295190](https://www.linkedin.com/in/ganesh-mahadev-b95295190)  
🔗 <https://github.com/ganeshmahadev> 🧑 <https://ganeshmahadev-portfolio.netlify.app/>

## Profile

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Master's in Computer Science, seeking to apply analytical and programming expertise within diverse IT roles. Specializes in Python, AI, software development, and machine learning applications. Committed to utilizing technology to drive efficiencies and advance IT solutions in dynamic environments. Seeking to leverage my technical skills and passion for problem-solving in a dynamic and challenging environment.

## Education

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### Blekinge Institute of Technology, Karlskrona

Jan 2023 – June 2024

*Master's in Computer Science*

**Relevant Coursework:** Machine Learning, Artificial Intelligence, Programming in Unix, Decision Support System, Software Security, Software Metrics and Research Methodologies

### Jawaharlal Nehru Technological University Hyderabad

2019 – 2023

*Bachelor's in Computer Science*

8.23 CGPA

**Relevant Coursework:** Data Structures, Computer Architecture, DBMS, Computer Networks, Compiler Design, Software Methodology, Cyber Security and Web Technologies

## Experience

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### Master Thesis Student

Jan 2024 to Present

*Ericsson, Karlskrona*

**Core Skills:** Python, AI, Large Language Models (LLM's), Software Development, Machine Learning, Statistical Analysis, Problem-Solving, Data visualization, Project Management, Communication.

- Pioneered the analysis of 24,500+ ITSM incident records, utilizing advanced statistical modeling and AI techniques to validate 10 key hypotheses and identify critical SLA bottlenecks.
- Engineered predictive models that enhanced SLA compliance forecasting accuracy of 72 %, employing explainable AI methodologies to identify key influencing factors in cases of SLA.
- Utilized various statistical tests including ANOVA and chi-square to explore hypotheses and address specific data-related inquiries.
- Implemented dynamic Power BI dashboards, elevating data transparency and decision-making efficiency.
- Currently developing an innovative RAG chat application leveraging cutting-edge large language models, enhancing customer interaction capabilities

### Research Intern in Machine Learning

Aug 2022 to Oct 2022

*Centella Scientific Pvt Ltd*

**Core Skills:** Data Analysis, Machine Learning, Research and Literature Review, Drug Development and Pharmacokinetics, Predictive Analytics, Problem-solving, Scikit-learn, XGBoost

- Executed comprehensive analysis of ADMET properties for drug molecules, enhancing prediction accuracy of key pharmacokinetic behaviors.
- Conducted extensive literature reviews to identify cutting-edge techniques for predicting Extraction properties.
- Engineered XGBoost and Random Forest models, achieving a 20% improvement in predicting the Extraction property for novel drug candidates, accelerating the drug discovery process.

Projects

ITSM Support GPT | *Langchain, Ollama*

March 2024

- Developed an innovative POC RAG application leveraging Langchain, Chromadb, and Ollama to answer complex questions related to IT Incidents Root Cause Analysis (RCA) data. This application streamlined incidents, providing actionable insights that enhanced incident resolution efficiency.

Language Detection using Traditional ML Techniques | *Python, ML*

January 2024

- Designed and implemented an ensemble machine learning model by integrating SVM, and Naive Bayes algorithms and compared with RF and XGB. This comparison led to a significant boost in language detection accuracy, reaching an impressive precision 96% and recall 91% it tends to accurately predict the correct language classes while also being effective at capturing most relevant instances than other models.

AI Chatbot | *NLP, PyTorch*

December 2023

- Engineered an advanced AI chatbot for an e-commerce coffee platform using PyTorch and natural language processing (NLP) techniques. Leveraged a sophisticated feed-forward neural network with two hidden layers.

Real-Time Credit Card Fraud Detection | *Python, ML*

November 2023

- Deployed a cutting-edge real-time credit card fraud detection system, leveraging Flask for the backend and advanced machine learning algorithms. Achieved 93% accuracy in identifying fraudulent transactions, significantly bolstering transaction security and mitigating financial risks.

Cryptocurrency Price Prediction Decision Support System | *Python, Deep Learning*

May 2023

- Developed a sophisticated decision support system utilizing Python and MongoDB to identify the optimal machine learning model for short-term cryptocurrency price prediction. Evaluated multiple models, including GRU, LSTM, Bi-LSTM, XGBoost, and Random Forest, to ensure comprehensive analysis and selection. This innovative approach enhanced prediction accuracy and provided critical insights for informed decision-making in the volatile cryptocurrency market.

Why So Harsh | *NLP, ML*

March 2023

- Implemented robust models to detect and flag inappropriate or harmful online comments. Leveraged advanced natural language processing (NLP) techniques to pre-process and extract critical features from text data. Utilized these features to train a highly accurate classification model, significantly improving the identification and mitigation of toxic content, thereby fostering a safer and more respectful online environment.

Technical Skills

Languages	C, C++, Python, Java
Developer Tools	VScode, Jira, Huggingface, Linux
Version Control	Git, GitHub
Visualization	PowerBi, MS Excel, Matplotlib, Seaborn
Database	SQL, MySQL, MongoDB
Web Technologies	HTML, CSS, JavaScript
Libraries/Frameworks	Numpy, Pandas, Sklearn, TensorFlow, Streamlit, Flask, LangChain, Ollama
Cloud Technologies	AWS, Azure
Other Skills	Bayesian Statistics, Probability, Statistical Analysis

Certificates

- Introduction to Python Programming – Microsoft Technology Associate
- Machine Learning course completion certificate by Remark Skill Education
- Crash course on Python by Google

## Soft Skills

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- **Professional Skills:** I am proficient in effective communication, advanced problem-solving, team management, meticulous time management, and maintaining high attention to detail.
- **Interpersonal Skills:** Dynamic team player with strong adaptability and resilience, skilled in emotional intelligence and conflict resolution