

Sarvajeeth U K

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EDUCATION

Indraprastha Institute of Information Technology, Delhi

Bachelor of Technology in CSSS (8th Semester)

Dec 2021 – Present

BGS PU College, Mysuru

Percentage: 96.6%

Karnataka Board of Secondary School

2019 – 2021

St. Joseph's Central School, Mysuru

Percentage: 95.6%

Secondary School Certificate (CBSE)

2009 – 2019

TECHNICAL SKILLS

Skills: Backend Development, Android Development, Data Science

Programming Languages: Python, Java, Kotlin

Backend Development: Django, Flask, REST API, Postman, SpringBoot, MongoDB, MySQL, Docker, Git

Data Science and Machine Learning: Pandas, NumPy, TensorFlow, Keras, scikit-learn, OpenCV, LSTM

EXPERIENCE

Research Intern — Complex Systems Lab, IIIT Delhi

Aug 2023 – Present

Machine Learning for Computational Gastronomy

Built ML models for allergen detection in a Protein Sequence

Engineered a recipe recommendation system using collaborative filtering, deployed via Flask.

Data Science Intern — Excelsoft Technologies Pvt Ltd

May 2024 – Jul 2024

Data Science & Data Analyzation

Built predictive models for user engagement analysis using TF-IDF and cosine similarity.

Performed data cleaning and exploratory analysis to optimize content personalization accuracy

Developer Intern — Caliper Business Solutions

May 2023 – Jul 2023

Backend Development & API Integration

Automated SMS alerts for adverse weather using Twilio API, reducing logistics delays by 30%.

Designed geo-fencing system with Django, improving truck route compliance by 25%.

PROJECTS

SafeChoice - Personalized Product Safety Checker

Mar 2024 – Present

Built a Streamlit app that scans product barcodes and checks safety based on user allergies/health conditions

Integrated OpenFoodFacts API to retrieve product details and analyze ingredients against user profiles

Created intuitive interface with clear safety indicators and detailed ingredient breakdowns

Implemented user authentication and profile management system for personalized recommendations

Tech: Python, Streamlit, OpenFoodFacts API, Pandas, SQLite — 🐙 Code

MedEase

Dec 2024

Built a machine learning model to predict hospital readmissions using FHIR API for data integration.

Implemented an OpenAI summary generator to provide concise and actionable insights from patient data.

Tech: Python, Jupyter Notebook, Machine Learning, FHIR API, OpenAI API — 🐙 Code

ML Allergen Model

Jan 2024 – May 2024

Developed a machine learning pipeline for allergen classification with TensorFlow and scikit-learn.

Improved prediction accuracy through feature selection, data augmentation, and hyperparameter tuning.


Technologies: Python, TensorFlow, scikit-learn. 🐙 Code

Traffic Terminator - Namma Yatri Peak Hour Solution

Jan 2024 – Oct 2024

Developed AI-driven solution to optimize taxi supply-demand balance during peak hours in Bengaluru. Implemented hotspot prediction using LSTM Neural Networks and created dynamic pricing system using Q-Learning Reinforcement Learning model. Developed intelligent ride matching algorithm and queue management system for efficient ride distribution.

Implemented WhatsApp integration for accessibility and subscription-based model (Namma Yatri Plus) with priority access. Created loyalty queue system based on ride history and experience-based incentives for drivers to increase engagement and retention.


Built comprehensive dashboard for monitoring hotspots, dynamic pricing, ride sharing benefits, and driver recommendations. **Tech:** Python, Machine Learning, Reinforcement Learning, NLP, Geospatial Analysis —  Code

Course ChatBot & Suggester

Nov 2024 – Jan 2025

Built a chatbot using NLP and FAISS for university course regulation queries.

Extracted and indexed PDFs for fast and accurate responses.

Tech: Python, Flask, FAISS, NLP —  Code

Moodipy: Emotion-Based Music Player

Aug 2024 – Nov 2024

Integrated emotion detection with Spotify API for real-time music recommendations.

Used a deep learning model to classify emotions from facial expressions.

Tech: Python, Flask, TensorFlow, Spotify API —  Code

WeatherApp

June 2024 – Aug 2024

Developed an Android app for real-time and predictive weather data.

Technologies Used: Kotlin, OpenWeather API, Android Studio. —  Code

AWARDS AND ACHIEVEMENTS

Dean's Award for Academic Excellence: Received in my 3rd Year at IIITD.

Finalist, The Great Bengaluru Hackathon : Placed in the top 9 out of 150+ teams in this prominent innovation event.

2nd Place - Enactus Hackathon: Recognized for innovative project development.

Competitive Programming: Solved 500+ problems on LeetCode, emphasizing expertise in Data Structures and Algorithms.

INTERESTS AND HOBBIES

Extra Activities: Chess, Trekking, and exploring nature.

Project Development: Passionate about building innovative software projects and experimenting with new technologies.

Music : Enjoy listening to tech podcasts and music while coding.