Saurabh Kumar

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Education

NIT SILCHAR - M.tech in Artificial Intelligence. August 2024 – Present

- **CGPA: 8.5**
- **Coursework:** Artificial intelligence, Foundation of Machine Learning, Data Science.

Gaya College of Engineering, Gaya - B.tech Computer Science & Engineering. August 2018 – August 2022

- **CGPA: 7.86**
- **Coursework:** Computer Architecture, Operating System, DBMS, Data Structure, Engineering Mathematics.

Gulab Memorial College, Bettiah, West.Champaran - Higher Secondary Examination. May 2014 – May 2016

- **Percentage: 76.4**

Dolphin Public School,Muzaffarpur - Secondary Examination May 2014

- **CGPA: 9.2**

Projects

AI Assistant for Task Automation and Data Retrieval **Link:** `github.com/saurabhkmr1092/AgentAI`

- **Objective :** To develop a Python-based AI Assistant capable of performing Arithmetic Operations, Executing System Commands and writing Python Scripts.
- **Learnings :**
  - Designed and implemented a custom system prompt and multi-step AI workflow using planning, action, and observation phases.
  - Gained experience with OpenAI's chat completion API and managing structured JSON-based dialogue.
  - Learned how to integrate external tools like weather API and system command execution within an AI agent workflow.
- **Tools Used :** Python, OpenAI GPT-4o API, Requests, dotenv, os, JSON, CLI, Git & GitHub.

Data Analysis on MAGIC gamma Telescope Dataset **Link :** Colab Notebook

- **Objective :** Built a classification model to distinguish gamma rays from background noise (hadrons) using the MAGIC Gamma Telescope dataset.
- **Learnings :** Gained hands-on experience in data preprocessing, model building, and evaluation. Improved proficiency in Python, TensorFlow, and data visualization techniques.
- **Tools Used :** Python, Scikit-learn, TensorFlow, Pandas, Matplotlib.
- **Machine Learning Algorithms:** K-NN, Naive Bayes, SVM, Logistic Regression, Neural Networks.

SKILLS

Languages: C, C++, Python, Javascript, HTML, CSS

Libraries: Scikit-learn, NumPy, Pandas, matplotlib.

FrameWork & Tools: Tensorflow, Git,GitHub.

ML Algorithms: K-NN, Naive Bayes, SVM, Regression techniques, Neural Networks.

Certificates & Achievements

- EICT-IIT Kanpur Certified in PYTHON.
- Elite Certificate of Machine Learning by IIT Madras.