Mohammad Shahnawaz

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Education

Guru Ghasidas Vishwavidyalaya June 2026
B.Tech in Electronics and Communication *Current CGPA: 7.90/10 (Till 6th Sem)*

Doon Sr Secondary School 2021
Senior Secondary (12th Grade) *Marks: 71%*

SS Public School, Gopalganj, Muzaffarpur 2019
Secondary (10th Grade) *Marks: 89.6%*

Skills

Languages:Python, SQL, JavaScript, HTML/CSS, C/C++
Developer Tools: Git, Docker, Google Colab
Libraries/Frameworks: PyTorch, Hugging Face OpenCV, NumPy, Scikit-learn, Pandas, Flask, Django
Soft-skills: Problem solving, Teamwork, Communication, Curious to learn

Experience

Open Source Contributor Mar 2025
ListenBrainz (MetaBrainz Foundation) *Remote*

- Implemented persistent **volume state** in BrainzPlayer by integrating **localStorage**, ensuring user settings are retained across sessions.
- Synchronized player state with global context, improving consistency between **UI controls** and playback engine.
- Collaborated with maintainers through pull requests and code reviews, gaining hands-on experience with large-scale React codebases.

Projects

Irrigo | *Flask, ESP8266, Python* — **GitHub**

- Developed an ML-powered irrigation system that analyzes soil, weather, and crop data to reduce water usage.
- Implemented random forest regression and classification model for predicting water requirements and pump status respectively.
- Gained hands-on experience with ESP modules for IoT applications and trained machine learning models on user data for real-time analytics and decision-making.
- Collaborated with team to complete project for the hackathon, earned Special Mention

Text Summarizer | *NLP, Python, Hugging Face, LLM(T5 model)* — **GitHub**

- Built a text summarization app using T5-small and PyTorch.
- Developed a Flask backend integrated with Hugging Face Transformers.
- Deployed using Gunicorn, supporting web and REST API access.

Movie Recommendation System | *Python, Streamlit, Pandas, Numpy* — **GitHub**

- Developed a movie recommendation system based on user preferences by creating similarity matrix
- Built a content-based filtering recommendation system using cosine similarity.
- Collaborated with classmates to get feedback on the recommendation system.

Grocio (Grocery List Manager) | *Python, Flask, JavaScript, SQL*— ***GitHub***

- Built a full-stack web app to manage grocery lists with CRUD operations.
- Implemented data storage and categorization features for better organization.

Certifications

- Ranked in the top 1% among 33,131 students in the IoT certification course by IIT Kharagpur (NPTEL) [**Certificate**]
- Completed CS50's AI with Python. [**Certificate**]
- Completed CS50x – Introduction to Computer Science [**Certificate**]

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