Vishnu

B.Tech - Computer Science and Engineering
Indian Institute of Technology, Mandi
📅 Nov 2022 - Jul 2026

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Mandi	7.76 (Up to 4th semester)	Nov 2022 - Jul 2026
Senior Secondary	CBSE	91%	2021
Secondary	CBSE	95%	2019

PROJECTS

- **AuthentiCheck** | Streamlit PyTorch PyAV Transformers Numpy YOLO   ***GitHub Demo***
  – Engineered a high-accuracy real-time video deepfake detection system by integrating **ViViT** and **Wav2vec** models; with a detection precision of **85%** for both pre recorded and live videos, minimizing security risks.
  – Strengthened the solution with a user-friendly interface on **Streamlit**, enabling comprehensive video and audio feature **fusion** for robust deepfake identification.
- **Student Management System** | Python MySQL PyMySQL   ***Report***
  – Provided complete management solutions to take care of **enrollment** and **maintenance** reports.
  – Program was divided into **user-defined** functions to take care of all future upgrades and expansion.
  – Key Features of the project include user friendly menu driven options, **exceptions** used for database, tables, zero division to avoid inconvenience to users, **Data Validation** for functions (eg-sort(), delete(), etc.) to avoid ambiguous/wrong/invalid data entry.
- **Guardians of Truth** | CLIP-ViT-L/14 Resnet50 CNN LSTM Javascript FastAPI   ***GitHub Demo***
  – Implemented research paper using ProGAN dataset and CLIP (ViT-L/14) for feature extraction, achieving **92.9%** and **87%** accuracy on Dalle and Glide-100 datasets respectively **surpassing SOTA results** of **86%** and **79%**.
  – Fine-tuned **RESNET-50** model to distinguish real vs. fake images with **87% accuracy** and detect DeepFake sources with **93%** accuracy.
  – Developed **Guardian** for Deepfake detection and **TruthGuard** for fake news detection, integrated into a web platform for real-time updates and verification, achieving **93% accuracy** utilizing LSTM for **sentiment analysis**.

TECHNICAL SKILLS

- **Programming Languages**: Java, Python, C++
- **Libraries and Frameworks**: NodeJS, ExpressJS, PostgresSQL, NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow
- **Tools and Technologies**: HTML, CSS, Git, GitHub, MySQL, Visual Studio Code, Google Colab

ACHIEVEMENTS

- Secured **3rd position** in the prestigious **National Level** Hackathon, **Kleos 2.0** organized by RAIT ACM Navi Mumbai out of over 400 teams.   *Certificate*
- Participated in **Pan-India** event "Mine The Model Celesta" organized by **IIT Patna** on Kaggle, achieved a score of **0.11** and secured **11th position** in the event.   *Certificate*
- Awarded with blue blazer for **academic excellence** for four consecutive years (2016 - 2020).   *Certificate*
- Secured **99.6 percentile** in JEE Mains and secured an **All India Rank of 2773** in JEE Advanced.

POSITION OF RESPONSIBILITIES

- **Planning and Management Team:** Member of planning and management team of our college's cultural fest, Exodia. In this role, I managed an event, coordinated with the judge, and invited participants from various colleges.   *Mar'23 - May'23*
- **Team Lead SIH Hackathon:** Led a team of 5 members in the Smart India Hackathon event.   *Aug'23 - Nov'23*
- Member of the **Robotronics Club** of our college.   *Sep'23 - Present*
- Member of the **System Administration and Infosec Cell (SAIC)** of our college.   *Jan'24 - Present*

RELEVANT COURSEWORK

- **Computer Science Courses**: Data Structures and Algorithms, Design and Analysis of Algorithms, Computer Architecture, Mathematical Foundations of Computer Science, Formal Languages and Automata Theory, Information and Database systems.
- **Data Science Courses**: Linear Algebra, Computing and Data Science, Probability and Statistics, Machine Learning, Information Security and Privacy.