Tanvi Birelli

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Education

Maturi Venkata Subba Rao Engineering College *Expected Graduation: 2026*
BE in Computer Science - AI & ML
- GPA: 9.08/10.0
- **Coursework:** Data Structures & Algorithms, Machine Learning, Artificial Intelligence, Database Management Systems, Computer Networks, Operating Systems, Software Engineering, Natural Language Processing

Projects

Student Course Management System *2024*
- Developed a personal academic assistant for students to manage courses, tasks, schedules, and study resources
- Implemented course tracking, task prioritization, reminders, and a personal resource library with authentication and security measures
- Tools Used:
  - **Backend:** Node.js, Express.js, MongoDB, Mongoose, JWT, bcryptjs, express-validator, Multer, Nodemailer, node-schedule
  - **Frontend:** HTML5, CSS3, Vanilla JavaScript
  - **Development Tools:** npm, Git, Postman

Multilingual Text Summarisation using Pretrained Transformers *2024*
- Built a multilingual summarization pipeline using Hugging Face's mT5 model with the XLSum dataset
- Explored models like mBERT, mBART, IndicBERT, IndicBART, and mT5 for low-resource language tasks
- Gained hands-on experience in LLMs, NLP pipelines, and evaluation without full fine-tuning
- Technologies Used: Python, Hugging Face Transformers, Google Colab, PyTorch

Experience

VoAT Networks — Web Development Intern *Apr 2025 – Present*
- Contributing to backend development using Node.js, Express.js, and MySQL to build REST APIs
- Implementing authentication and security features using bcryptjs and JWT
- Learning and building frontend features using React
- Gaining exposure to full-stack development workflows including testing and debugging
- Tools & Technologies: Node.js, Express.js, MySQL, React, JWT, bcryptjs, HTML, CSS, JavaScript, Postman

Technologies

Languages: HTML, CSS, JavaScript, Python, C, SQL,

Frameworks: Node.js, Express.js

Databases: MongoDB, MySQL

Libraries : Mongoose, NumPy, Pandas, NLTK, SpaCy

Tools: Postman, VS Code, Git, Jupyter Notebook