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Projects

Timetable Generator Using Genetic Algorithm | *Python, PyQt*

- Developed a genetic algorithm-based solution to automate class schedule creation while avoiding conflicts.
- Incorporated constraints like faculty availability, classroom capacity, and subject credits to ensure optimal slot utilization.
- GUI built using PyQt for intuitive input and real-time result visualization.

Voice-Controlled Smart Home System | *Raspberry Pi, Python, Google Speech Recognition*

- Created a smart system to control home appliances using voice commands for seamless automation.
- Used Python scripts with Google Speech API to interpret voice input and control GPIO-connected devices.
- Improved accessibility and energy efficiency through real-time automation.

Number Plate Detection System | *Raspberry Pi, Python, OCR (Tesseract)*

- Designed an OCR-based security system to scan, extract, and verify vehicle number plates.
- Integrated camera modules with Raspberry Pi for live surveillance.
- Allowed access only to authorized vehicles, enhancing apartment security systems.

Automatic Pet Feeding System | *Arduino Uno, Servo Motor, Real-Time Clock Module*

- Built a device to dispense pet food at regular intervals using time-based triggers.
- Programmed in C using Arduino IDE with integrated servo motor control and RTC module.
- Ensured consistent pet feeding and reduced owner intervention.

File Automation System | *UiPath Studio*

- Automated repetitive file operations such as renaming, moving, and organizing using RPA tools.
- Designed custom workflows for desktop automation, improving efficiency and reducing manual errors.
- Explored advanced UiPath components like variables, sequences, and control flow.

ToDo App | *Python, Streamlit*

- Developed a GUI-based task management app for planning daily routines.
- Features included task addition, deletion and mark completion.
- Employed Streamlit for clean UI and responsive performance.

Project Portfolio Website | *Python, Streamlit*

- Built a professional, interactive web portfolio to showcase projects and achievements.
- Designed a minimal, responsive layout to highlight key academic and personal milestones.
- Included expandable sections, GitHub links, and project demos.

Email Thread Extractor | *Python, Gemini API*

- Engineered a tool to parse email threads and summarize long conversations using LLM.
- Employed Gemini API for semantic understanding and summary generation.
- Helped users reduce reading time and improve productivity in managing emails.

Natural Language to SQL Converter | *Python, Gemini API*

- Designed a system to transform plain English queries into SQL commands.
- Integrated Gemini LLM for NLP understanding and SQL generation.
- Simplified database querying for non-technical users or analysts.

Multi-Agent Chatbot | *Python, Gemini API, Gradio*

- Built a modular chatbot with dedicated agents to answer trivia, math, general questions, and tell jokes.
 - Used Gemini API for intelligent language generation and Gradio for front-end UI.
 - Employed multi-threaded architecture for parallel agent responses and context switching.
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Education

Bachelor of Engineering (BE) | *Information Science and Engineering*

BNM Institute of Technology

GPA: 9.34 | 2022–2026

Internship/Experience

Summer Internship | BNMIT | Web Technologies & File Structures

Worked with: HTML, CSS, JavaScript, Node.js, React.js, File Indexing

- Gained hands-on experience in full-stack development by building a responsive website from scratch.
- Developed front-end features using HTML/CSS/JavaScript and implemented CRUD operations.
- Built a file-structured backend using C++ to store and retrieve cricket player data efficiently using secondary indexing.

Cybersecurity Internship | Theta Dynamics

- Acquired knowledge of white hat hacking techniques, phishing prevention, and fraud detection.
- Participated in hands-on activities on platforms like HackTheBox and Hacksplaining using Kali Linux.

Gained exposure to real-world cybersecurity platforms and enhanced practical security skills.

Skills

- **Languages & Tools:** Python, Java, C, HTML, CSS, JavaScript, RDBMS
 - **Frameworks/Platforms:** UiPath Studio, Streamlit, PyQt
 - **Soft Skills:** Team Leadership, Technical Mentorship, Event Management
 - **Roles:**
 - Vice Chair – BNMIT-ACM Student Chapter
 - Event Coordinator – Nexus Community BNMIT
 - Student Coordinator – RPA Club BNMIT
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Certificates

- **Google AI Essentials** – Coursera
 - **AWS Academy Graduate – Cloud Web Application Builder** – AWS Academy
 - **Programming Fundamentals in Java** – PWC Launchpad
 - **IT Fundamentals** – PWC Launchpad
 - **DevOps & Cloud Fundamentals** – PWC Launchpad
 - **Python for Data Science** – Infosys Springboard
 - **AWS Academy Cloud Foundations** – AWS Academy
 - **AI & ML Training Course** – Infosys Springboard
 - **CompTIA Network+ Prep** – Infosys Springboard
 - **Introduction to MongoDB** – MongoDB University
 - **Cybersecurity** – Theta Dynamics
 - **UiPath Automation Suite** – UiPath Academy
 - **RDBMS Micro Certification Badge** – PWC Launchpad
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Achievements

- **1st Prize** – Anveshan Prodathon, 2022
- **2nd Prize** – Prodathon, 2022
- **2nd Place** – Hardware Hackathon, IEEE-PES BMSCE, 2024
- **1st Place** – Inter-Department Cricket Tournament, BNMIT