# ALLAM NEHAL VARMA

nehalvarma8818@gmail.com | linkedin.com/in/nehal-varma-allam | github.com/NehalVarma | 8897112809

## EDUCATION

**VELLORE INSTITUTE OF TECHNOLOGY**                                                                 **Sep 2022 - May 2026**
*B. Tech. Computer Science and Engineering*                                                                   **GPA: 7.88/10.0**
*Coursework: Design and Analysis of Algorithms, Software Engineering, Computer Networks, Foundation of Data Science, Cloud Computing, Data Structures and Algorithms, Introduction to C, Operating Systems, Object-Oriented Programming, information security, Database Management System*

**BHARATHI JUNIOR COLLEGE**                                                                          **Aug 2020 - May 2022**
*Telangana Intermediate Board*                                                                                          *90.1%*
*Coursework: Mathematics, physics, Chemistry*

## ACADEMIC PROJECTS

**Web Application Development using Flask |** *Python, Flask, Pandas, NumPy, Scikit-learn, Matplotlib*          May 2024 – Jul 2024
- Built a complete web app using Flask to predict concrete compressive strength with 90.6% accuracy..
- Applied machine learning algorithms including Linear/Logistic Regression, KNN, and Clustering.
- Gained hands-on experience in Python, data visualization, statistics, and model evaluation techniques

**PocketCommand: Smartphone-Based Remote Control |** *Python, Flask, HTML*                      Mar 2025 – Apr 2025
- Developed a system enabling smartphone control over devices via a Flask-based server.
- Designed an intuitive HTML interface for seamless user interaction.
- Implemented Python scripts to process commands and manage device communication.

**Personal Portfolio Website |** *HTML, CSS, Bootstrap, JavaScript*                                Mar 2024 – Apr 2024
- Designed and deployed a responsive portfolio website to showcase projects, skills, and experience
- Used Bootstrap for mobile-friendly layouts and consistent styling across all screen sizes.
- Integrated interactive JavaScript features like animations and dynamic content for enhanced UX.

## SKILLS

- *Technical Skills:* Java, C, Python, JavaScript, ReactJS, NextJS, Selenium, PLSQL, MYSQL, R, C++, UI/UX, WordPress,
- ML,
- *Others:* Git, Linux, Tableau, AWS, Microsoft Azure, Docker, Geo-spatial Analysis, RStudio, MATLAB, Red Hat Linux 9

## EXPERIENCE

**SmartInternz (in collaboration with Google Developers) - Machine Learning Intern**          Jun 2024 – Jul 2024
- Completed a guided project on Artificial Intelligence using Google TensorFlow with an overall score of **88/100**.
- Worked on all project phases including data collection, preprocessing, model training, evaluation, tuning, and deployment.
- Submitted detailed documentation, executable files, and successfully presented the final project.

**VIT VELLORE UNIVERSITY - Research Intern**                                                       Jan2024 - Jan 2025
- Conducted in-depth research on anomaly detection techniques in IoT systems using GRU-based models under the guidance of **Prof. Sivakumar V**.
- Successfully authored and published the paper *"GRU in Anomaly Detection for IoT: A Comparative Study"* in **IEEE SCEECS'25**, presented at MANIT Bhopal.
- Explored model performance evaluation methods and comparative analysis for time-series anomaly detection.