Nitya

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Education

Graphic Era Deemed University **Sep. 2022 – June 2026**
Bachelor of Technology in Computer Science(CGPA-8.57) *Dehradun, Uttarakhand*

Relevant Coursework

- Data Structures and algorithms
- System software
- Operating System
- Database Management
- Artificial Intelligence
- Compiler Design
- Computer Architecture
- System Security

Experience

CodSoft **Jan 2025 – March 2025**
Front End Developer Intern *Virtual*

- Designed and developed a responsive landing page using HTML and CSS, achieving 100 percent mobile responsiveness and optimized load time under 2 seconds.
- Built a personal portfolio website with HTML, CSS, and JavaScript, showcasing projects and skills; improved visibility with SEO best practices and deployed on GitHub Pages
- Developed an interactive and user-friendly calculator using HTML, CSS, and JavaScript, implementing real-time input validation and achieving 100 percent functionality coverage for basic arithmetic operations

Projects

Deep Learning based for detection of Malware Attack | *Python,TensorFlow, Google Colab* **September 2023**
nitya444

- Developed a machine learning model to classify Android software as malware or benign using a dataset of 100,000 observations and 35 features.
- Performed data preprocessing, feature selection, and correlation analysis using Pandas, Seaborn, and NumPy.Implemented a Deep Neural Network (DNN) with TensorFlow/Keras, consisting of 6 hidden layers with ReLU activation and a softmax output layer.
- Enhanced model performance through Stochastic Gradient Descent (SGD) with Nesterov momentum.Visualized training progress, accuracy trends, and feature importance using Matplotlib and Seaborn, aiding in better model interpretability

RSS Feed Aggregator | *Python* **june 2024**
rssfeed-parsing

- Developed a Python-based tool using Feedparser to extract and parse data from RSS feeds, and used Pandas for structured data handling and manipulation.
- Integrated language detection via the langdetect library to classify feed content, and exported results to CSV for further analysis and reporting.

Traffic Sign Recognition using Deep Learning | *python,matplotlib,tensorflow,numpy* **March 2025**
blurry traffic sign detection

- Built a CNN using TensorFlow to classify blurry traffic signs from the GTSRB dataset, incorporating data preprocessing (normalization, resizing, grayscale conversion) and data augmentation to improve model accuracy and generalization.
- Trained and validated the model with optimized hyperparameters, and conducted thorough model evaluation using accuracy score and confusion matrix to ensure robust performance.
- Managed large datasets using Pickle for data serialization and created insightful data visualizations with Matplotlib and Seaborn to analyze input distribution and model results.

Technical Skills

Languages: Python, Java, C,C++,JavaScript, SQL **Frontend**:React.js, HTML, CSS, JavaScript **APIs**:RestFul APIs,JSON **Frameworks & Libraries:** TensorFlow, scikit-learn, PyTorch, NumPy, Pandas, Matplotlib, Seaborn **Databases**: MySQL **Tools and Platforms**: Git,Github,VS Code,Google Colab

Volunteering

- Member of Google Developers Club
- Present as a team lead in hackathons for my team
- Represent my college in various technical contests