Keerthana Mahesh

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Skills

Languages: C++, Java, Python, SQL
Web Technologies: HTML, CSS, JavaScript,React.js, Bootstrap,Django, FastAPI, WordPress, Drupal
Streaming: FFmpeg
Technologies & Tools: VS Code, Eclipse, Jupyter, GitHub, Figma, Wix, Excel, LaTeX, MySQL, VMWare

Education

MVJ College of Engineering - B.E. in Computer Science and Design Engineering	*CGPA: 7.2/10*	Dec 2021 – May 2025
Kendriya Vidyalaya D.R.D.O - Class XII (PCMB)	*Percentage: 77%*	2020 – 2021
Kendriya Vidyalaya D.R.D.O - Class X	*Percentage: 87%*	2018 – 2019

Work Experience

Neuron Techno Solutions, Bangalore — Jun 2025 - Present
Application Support Engineer

Providing application support and deployment on Linux (Ubuntu), contributing to company website via WordPress.Set up Anthias on Raspberry Pi, including configuration, networking, and streaming integration. Currently developing a React.js + FastAPI + MySQL platform for live video streaming (RTSP/H.264, PCOTP/P2P) with FFmpeg transcoding, grid view, and expand features.

Knowledge Gains: Linux (Ubuntu), WordPress, SEO, SSH, WinSCP, AJAX, VMWare, FastAPI, FFmpeg, RTSP/H.264 streaming, H.264, RTSP, PCOTP, Anthias, Raspberry Pi

Interships

Extion Infotech, Bangalore — Dec 2024- April 2025
Ui/Ux Intern

Redesigned UI for an e-commerce website, optimized mobile onboarding, and built responsive templates to improve user experience and engagement.Conducted user research and usability testing for a health app to enhance retention and design.

Knowledge Gains: UI/UX Design, Wireframing, User Interface development,Responsive Web Design, User Research, Mobile Design, Design Tools (Figma, WordPress, Adobe XD)

CASDIC D.R.D.O, Bangalore — Dec 2024- Jan 2025
AIML Intern

Implemented machine learning algorithms (KNN, Naïve Bayes, Gaussian Mixture Model, PCA) for classification, regression, and clustering tasks using Python, Scikit-learn, and Matplotlib. Performed data cleaning and preprocessing, and applied PCA for dimensionality reduction to enhance model accuracy and computational efficiency.

Knowledge Gains: Python, KNN, Naive Bayes, Gaussian Mixture Models, PCA, Data Cleaning

GTRE D.R.D.O, Bangalore — Nov 2023- Dec 2023
Computer Networking Intern

Configured and managed routers and switches, implementing TCP/IP and DNS protocols for secure communication.Monitored network performance using Wireshark and NetFlow, applying subletting to optimize network topologies.

Knowledge Gains: Networking protocols, Routing and Switching, Network Monitoring

Project Work

Image Steganography: Expanded a system using Python to hide and extract messages in images using a genetic algorithm. Optimized data embedding for minimal image distortion and enhanced security.

Knowledge Gains: Genetic Algorithm, Image Steganography, Cryptography, Algorithm Optimization

Streetlight Fault Detection for Smart Cities using IoT: Built IoT-based streetlight fault detection using Arduino IoT Cloud and ESP8266 with real-time monitoring, adaptive lighting, and SMS alerts for improved efficiency.

Knowledge Gains: Internet of Things, Arduino IoT Cloud, ESP8266 Wi-Fi Module, Data Transmission, Real-time Monitoring, Sensor Integration

Cyberbullying Classification (Python, NLP): Built a multi-class cyberbullying detection model using TF-IDF, NLP preprocessing, and ML classifiers (Naïve Bayes, Logistic Regression, Decision Tree, Random Forest).

Knowledge Gains: NLP preprocessing, text classification, model evaluation, TF-IDF, supervised learning

Certificates

- **University Courses:** HHTML / C / Java Certifications from IIT – Mumbai
- Machine Learning using Python on Skillforge
- Web Development using Python on Trishna Technology