VINITHA R

Kunnathur, Tiruppur | **Phone:** +91 9500802729 | **E-mail:** vinitha0517@gmail.com
GitHub: github.com/vinitha517 | **LinkedIn:** linkedin.com/in/vinitha-r-6b352724a

CAREER OBJECTIVE

To secure an entry-level position in a dynamic organization where I can apply my skills and knowledge, enhance my abilities through continuous learning, and contribute to achieving organizational goals while fostering my professional growth.

EDUCATION

KONGU ENGINEERING COLLEGE
Bachelor of Engineering in Electronics and Communication Engineering **Nov 2021 – Mar 2025**
Cumulative GPA: **8.23/10**

S.K.N. MATRICULATION HIGHER SECONDARY SCHOOL
HSC | Percentage : **96.21%** **Jun 2020 – May 2021**
SSLC | Percentage : **94.8%** **Jun 2018 – Mar 2019**

EXPERIENCE/PROJECTS

STUDENT RESULT MANAGEMENT SYSTEM | *Python, HTML, CSS, JavaScript, MySQL, Flask*
- Built and deployed a web-based platform to manage student profiles, subjects, and result records with Create, Read, Update, and Delete (CRUD) functionalities.
- Designed secure admin and student dashboards with login authentication; enabled result viewing and printing functionalities.

CROWD DETECTION USING YOLOv8 WITH DEPTH ESTIMATION | *Python, Flask, PyTorch, OpenCV, YOLOv8*
- Integrated YOLOv8 with DPT-based depth estimation, achieving 92% accuracy, improving crowd counting precision.
- Enhanced real-time density estimation by leveraging depth data, ensuring accurate people detection in high-traffic environments.

MPTCP FOR D2D COMMUNICATION | *C++, ns-3, NetAnim, PyVis*
- Conducted a performance comparison between Multipath Transmission Control Protocol (MPTCP) and RFC 9438 for Device-to-Device (D2D) communication in 5G networks.
- Evaluated scalability and mobility through simulations in Network Simulator 3 (ns-3), analyzing node capacity and varying mobility speeds to determine protocol efficiency.

SKILLS

Technical Skills: C, Python, SQL, HTML, CSS, JavaScript
Tools: Git, VS Code, MS-Excel, Network Simulator-3 (ns-3), Flask, PyVis
Soft Skills: Leadership, Teamwork, Problem-solving

PAPERS/CERTIFICATIONS

- Performance Evaluation of MPTCP and RFC 9438 in 5G D2D Networks: A Comparative Study on Network Dynamics
  Accepted at IEEE ICC-ROBINS **Jun 2025**
- Programming Fundamentals using Python | *Infosys Wingspan* **May 2025**
- Front-End Development | *Great Learning* **Nov 2024**
- Cloud Computing | *NPTEL* **Jul-Oct 2022**

ACHIEVEMENTS & OTHERS

- Won first prize in Paper Presentation at SAKHI'23, Kongu Engineering College. **Mar 2023**
- Received Merit Scholarship for outstanding academic performance at KEC. **2021 – 2022**
- **Memberships**: ISTE Student Chapter, IETE Student Forum | Active Member **2022 – 2025**
- **Technical Interests:** Web Development, OOPs, Computer Networks
- **Languages Known:** Tamil, English
- **Hobbies:** Coding, Journaling, Reading Books