RESUME

Peyrunithi Siragha Gopal
B.Tech Artificial Intelligence and Data Science

SCHOLASTIC ACHIEVEMENTS

- Secured a CGPA of 8.78 in KIT KalaignarKarunanidhi Institute of Technology *[2025]*
- Secured a percentile of **90** in Higher Secondary Certificate *[2021]*
- Secured a percentile of **89** in Secondary School Leaving Certificate *[2019]*

TECHNICAL PROJECTS

- **Intel Unnati – Accident Zone Prediction |** Tech Competition *[Aug 23-Sep '23]*
  Guide: Dr. C. Deepa (Department of Artificial Intelligence and Data Science)
  - Identified accident prone routes and compared them using visualizations by using MS Excel and Power BI.
- **Professional Survey Analysis |** Technical summer project *[May'24]*
  - Designed and developed an interactive dashboard using **Power BI** with a professional survey dataset.

PROFESSIONAL EXPERIENCE

- **Internship at Domainhostly** *[Jun - Jul '23]*
  Data Analysis – Data processing and visualization
  - Collected and processed raw data from scratch using Excel, transforming it into structured data.
  - Visualized the data into an interactive dashboard to support data-driven decision using MS Excel.

ACADEMIC PROJECTS

- **Image Segmentation Using Machine Learning |** Course Project *[Jul '23]*
  Guide: Dr. C. Deepa (Departement of Artificial Intelligence and Data Science)
  - Built an image segmentation using **YOLOv5 and OpenCV** to detect helmet usage in traffic surveillance.
  - Utilized **TensorFlow** to train and optimize model for reliable performance under varying conditions.
- **Fire Detection System Using YOLOv9 Approach |** Group Project *[Jul '24 -May'25]*
  Guide: Prof. V. Prema (Department of Artificial Intelligence and Data Science)
  - Developed a real-time fire and smoke detection system using **YOLOv9** approach by processing live **CCTV** footage.
  - Implemented **Dynamic Anchor Selection and hybrid CNN** to improve accuracy while minimizing false alarms.
  - Integrated a notification system using **Haversine formula** to detect nearest fire stations and send alerts via mail using **SMTP** along with the **GPS** coordinates.

ONLINE COURSES

- **Problem Solving through Programming in C** *[Apr '22]*
  by NPTEL
  - Studied the basic programming concepts using the C language including **loops, functions, arrays and pointers**.
- **Applied AI with DeepLearning** *[Mar '24]*
  by IBM on coursera
  - Learnt to build and train deep neural network with hidden layers, using forward/backpropagation.

POSITION OF RESPONSIBILITY

- **Event Head|** Udhayam Symposium *[Feb '24]*
  - Organized the symposium at college and led the **technical quiz** event as event head.
- **Event Coordinator|** Women's Hackathon [TN-WISE] *[Mar '24]*
  - Actively coordinated the event by managing over **30 participating teams,** verifying credentials and guiding them.

TECHNICAL SKILLS

- **Programming Language:** Python, SQL, C
- **Python Libraries:** Numpy, Pandas, Matplotlib, Plotly
- **Visualization tools:** MS Excel, Power BI, Tableau

EXTRACURRICULARS

- **Participant | Smart India Hackathon 2023**
  Worked on the *Healthcare Ministry* problem statement: *Auto Drug Dispenser* and shortlisted for the **pre-final level** among district-level entries.
- **Competitive Programming | CodeChef**
  Received **college-level** recognition for consistent participation and performance.