Sathvik Meripe

+91 7013281145 | 220010031@iitdh.ac.in | linkedin.com/in/sathvik-meripe | github.com/sath-vik

EDUCATION

Indian Institute of Technology Dharwad	Dharwad, Karnataka
Computer Science and Engineering - CGPA: 8.70	*Dec 2022 – Apr 2026*

PROJECTS

Evolutionary Vision Transformer Research — Jan 2025 – Present
Deep Learning Research

- Explored **EvolutionViT**, a patch pruning framework for accelerating **Vision Transformers (ViT)** through **multi-objective optimization**.
- Studied **pruning methods** to balance cost and performance for resource-constrained edge devices.
- Analyzed **constraint handling strategies** to optimize ViT deployment while maintaining accuracy.
- Implemented ViT pruning experiments in **PyTorch** for model acceleration and structured analysis.

Recommendation System — Feb 2024 – Mar 2024
Full-Stack Development

- Designed, built, and launched a user-centric **website** for movie discovery with an intuitive interface.
- Engineered the backend recommendation engine by implementing and integrating both **Content-Based** and **Collaborative Filtering** techniques.
- Utilized **Python**, **Django**, **TensorFlow**, and **scikit-learn** to develop, test, and deploy the full-stack application.
- Implemented and evaluated various algorithms including **Bag of Words**, **TF-IDF**, **SVD**, and **Neural CF** to optimize recommendation accuracy.

Sports Logistics Management Website — Oct 2023 – Nov 2023
Web Development

- Developed a secure and scalable **sports facility management website**, streamlining logistics and improving operational efficiency.
- Leveraged **Django** to reduce backend development time significantly, enabling faster deployment.
- Implemented modern technologies like **HTML, CSS, JavaScript, and Bootstrap** to ensure a **responsive** and user-friendly interface.
- Integrated **SQLite** for data storage, achieving a noticeable improvement in data retrieval speed and reliability.

TECHNICAL SKILLS

Programming Languages: C, C++, Python

Technologies: HTML5, Bootstrap, CSS, SQL, NumPy, Pandas, LaTeX, Matplotlib

ACHIEVEMENTS

- **Awarded AP Grade**, in Advanced Topics in Deep Learning Course (CS707) in IIT Dharwad.
- **2nd place (out of 150 participants)**, in Start Sprint by Career Development Cell, IIT Dharwad
- **4th place out of (out of 200 participants)**, in Summer Of Innovation by Coding Club, IIT Dharwad.

KEY COURSES

Computer Science: Data Structures and Algorithms, Design and Analysis of Algorithms, Computer Architecture, Artificial Intelligence, Software Systems, Convolutional Neural Networkss

Mathematics: Linear Algebra, Calculus, Discrete Maths, Probability, Data Analysis, Theory of Computation

EXTRACURRICULARS

- **Outreach Team Member**, PARSEC Annual Techfest, IIT Dharwad
- **Participant at Sleepless Coding Saga**, Hackathon on Devfolio.