

# Mukul Prasad

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## EDUCATION

**Ramaiah Institute of Technology**, Bengaluru, India Expected Jun 2028  
3<sup>rd</sup> Year, B.E. in Computer Science & Engineering (AI & ML) **CGPA: 9.47**  
**St. Arnold H.S. School**, Indore, India Class XII (2023): **91.0%** | Class X (2021): **95.0%**

## EXPERIENCE

**ML Intern** | *FlyRank AI* July 2026 – Aug 2026

- Worked on **search intelligence**, **data contracts**, **action scoring**, and **ML experimentation**, developing a **Google Search Ranking & Discoverability** capstone using Python, PyTorch, Scikit-learn, and LLM workflows.

**Open Source Mentor** | *GirlScript Summer of Code (GSSoC'26)* Jun 2026 – Present

- Selected among **135 mentors nationally**, supporting developers across **6 domains**: AI/ML, Web, DevOps/Cloud, Data Science, Security, and Open Source.
- Guided **3 developers** across **5+ engineering areas** including React state management, async workflows, CI automation, debugging, and code review; accumulated **60 mentor points** through hands-on open-source mentoring.

**Research Intern, AI/ML Drug Repurposing** | *IEEE Computer Society* Feb 2026 – Present

- Built an AI drug-repurposing pipeline spanning **1,500+ drugs**, **20K+ genes**, **130+ diseases**, and **50K+ edges**, using PyTorch Geometric, RDKit, PubMed, WHO data, and **2,048-bit Morgan fingerprints**.
- Co-authoring an **IEEE research paper** by developing the **4-component NDPI** framework combining HGT predictions, chemical similarity, PubMed evidence, and WHO equity scoring.

## PROJECTS

**DonorConnect — Intelligent Blood Donor Matching** *Top 10/1,000 Teams — ECE Society BIT Mesra Hack NestJS, Next.js, TypeScript, MongoDB, Socket.IO, JWT, Docker* [Github](#) | [Demo](#) | [Live](#)

- Built a full-stack blood donation platform featuring intelligent geospatial donor matching, **3-channel** emergency notifications, real-time WebSocket updates, and secure JWT-based authentication.

**KisaanMitra — Multi-Agent Agricultural AI** *1st Runner-up — Agentic AI Hackathon Python, Multi-Agent Systems, NLP, AWS Lambda, Deep Learning* [Github](#) | [Demo](#)

- Engineered a **5-agent MAS** for crop advisory, market intelligence, weather monitoring, IoT integration, and alerting.
- Trained on **12K+ agricultural records** achieving **87% accuracy**; with **sub-2 s** inference.

**Project Astraeus — AI Mission Control** *SIH 2025 Merit Python, TensorFlow, GNN, PPO, RL, Digital Twin Architecture* [Github](#) | [Demo](#) | [Live](#)

- Engineered an AI-powered digital twin for satellite mission control featuring real-time telemetry, intelligent communication scheduling using **GNN + PPO**, and **91% predictive failure detection accuracy**.

**RegGraph-AI — Regulatory Graph Intelligence** *Zonal Champion, Finalist — HackArena 2.0, IIIT Delhi Python, Graph AI, NLP, Deep Learning, RAG* [Github](#) | [Demo](#)

- Built a Graph AI pipeline for regulatory intelligence using knowledge graphs, NLP entity extraction, RAG. Delivered explainable compliance retrieval by surfacing regulatory risk pathways from large document corpora.

## TECHNICAL SKILLS

**Languages:** Python, C/C++, Java, SQL

**AI / ML:** PyTorch, TensorFlow, Scikit-learn, Hugging Face, LangChain, LangGraph, NLP, RAG Pipelines, Multi-Agent Systems, Deep Learning

**Web & Backend:** Node.js, MERN Stack, REST APIs, Firebase

**Tools:** Git, GitHub(1.5k+ contributions), MCP(Integration and Operations)

**Cloud & MLOps:** AWS (Lambda, S3, SageMaker, EC2, IAM), Docker, CI/CD, Model Deployment

**Databases:** PostgreSQL, MongoDB, MySQL, Redis, Supabase, Hive, Hbase, Graph DB(Neo4j)

**Coursework:** Data Structures & Algorithms, Database Management Systems, Operating Systems, Compiler Design

## ACHIEVEMENTS

- ML Competitions:** **Top 150/10,760** (as of Jul 2026) - Kaggle Wellbore Geology Prediction(International team led by PyJa) | **Top 25/348** - Kaggle Formula 1 Race Result Classification (Polaris Institute of Technology)
- Hackathons:** National Semifinalist @Flipkart Grid 8.0, National Semifinalist@ JP Morgan Chase-Code for Good'26| 1st runner-up - GenAI Fusion'25 Hack | Zonal Champion - HackArena 2.0 (IIIT Delhi) | **Top 10/1,000** - BIT MESRA Hack'24 | **Finalist** - Samsung PRISM'25,'26, wHACKiest'26, Hack-A-War'25 (Top10), Codecrafter'26, HackMalenadu'26 | **SIH'25 Merit**
- Academic:** Nearly perfect **9.95 SGPA** (Sem II) | **9.61 SGPA** (Sem III) - Ramaiah Institute of Technology
- Certifications:** AWS Cloud Practitioner Essentials | AWS Fundamentals of AI/ML | IBM India Impact GenAI Program - IISc Bengaluru | AI Fluency: Framework & Foundations by Anthropic
- Leadership & POR:** Leading **MSRIT'28** & **MSRIT'29** communities (**3.5K+ active members**) | Founding Core Member- Amazon Web Services (AWS) Cloud Club | Core Member -Quantum Cluster(QpiAI Industry MoU) | Webmaster- IEEE CIS | **DeepStation (US) Hack Organizer-Google for Dev** | E-Cell|DSC(formerly GDG)