

# UTTEJ MOTURU

Software Engineer | Passionate About Real-World Problem Solving | Full Stack Development Enthusiast

## Personal details



UTTEJ MOTURU



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## Education

### Under Graduation (B.Tech - CSE)

Nov 2022 - Apr 2026

Avanathi Institute of Engineering and Technology,  
Visakhapatnam, Andhra Pradesh

Percentage: 71%, CGPA: 7.46

### Intermediate, MPC

Jun 2020 - Mar 2022

Narayana Junior College, Visakhapatnam, Andhra Pradesh

Percentage: 64%

### Schooling

Jun 2008 - Jun 2020

Saraswathi Vidya Vihar, Visakhapatnam, Andhra Pradesh

Percentage: 99%

## Courses

### • Web development & Full Stack

By *ExcelR*

### • HTML5, CSS3 and JS

By *Infosys Springboard*

### • Programming in Java

By *Swayam(NPTEL)*

### • Career Readiness

By *WNS Global Services*

## About Me

Innovative Software Engineer and Technical Lead specializing in Full Stack Development, Computer Vision, and R&D. Experienced in architecting end-to-end solutions, from high-performance web applications with React and Node.js to autonomous systems using YOLOv8 and OpenCV. At Avanathi Research Hub, I led cross-departmental initiatives, integrating hardware and scalable software. Passionate about tackling real-world challenges with Python, Cloud Infrastructure (AWS/GCP), and Machine Learning, I combine leadership experience with strong technical curiosity in every project.

## Skills

- **Languages:** Python, Java, C++, C.
- **Web Development:** HTML5, CSS3, JS, PHP, Bootstrap.
- **AI & Computer Vision:** YOLOv8, OpenCV, ML, DL, Quantum Computing
- **Database & Cloud:** MongoDB, MySQL, SQLite, Firebase, Supabase, AWS, Google Cloud
- **Tools & Platforms:** Git/GitHub, Linux (Raspberry Pi, Jetson Nano), VS Code, Postman
- **Automation & Workflow:** n8n, Antigravity, Kiro.

## Mini Projects

### • Drone

Built a drone from scratch with 0 knowledge to a high-performance drone within 6 months by using the latest technology of image processing (YOLO-10) to detect humans in real time in a disaster area.

Under the guidance of **Mr. V. Raju (Assistant Professor at AVEN)**

### • DigitalTwin 2D-3D Conversion with Quantum

Developed a React & Three.js tool to convert live map data (Mapbox/OSM) into exportable 3D city models. Implemented real-time building extrusion and OBJ export for 3D design workflows.

Under the guidance of **Dr. Prof. S. Pallam Setty (Senior Professor at IT Dept. AU)**.

### • Brain stroke risk prediction

Built a Flask web app with 88% accuracy using Random Forest for real-time stroke risk assessment. Tech: Python, Flask, ML, SQLite, and also used free AWS services.

Under the guidance of **Mr. K. Vara Prasad (Assistant Professor at AVEN)**

### • Risk2Relief | AI Health Diagnostics

Built an AI platform to synthesize medical data into actionable diagnostic insights and risk predictions. and Streamlined clinical workflows by automating the transition from patient risk assessment to care.

### • Cricket Player Auction System

Built a real-time web app for live player bidding using HTML, CSS, JavaScript, and Firebase for the backend and live database.

## Achievements

- Software Developer at **Steel Plant COE KALPATARU**, guided by **Dr. Chandra Sekhar Pulle, DGM, VISAKHAPATNAM STEEL PLANT.**
- Senior Software Team Leader at **ARH-Avanathi Research Hub.**
- Member of the **Institution's Innovation Council (IIC).**
- Achieved 1st place in an IIC hackathon.
- Secured 2nd place in Code Debugging, Code Hunting, and Quiz at the Technical Fest.
- Initiated and executed a successful "Code Hunt and Quiz on UNSTOP" with positive feedback.
- Organized a successful "EAPCET Mock Test on UNSTOP."
- Delivered presentations and seminars to enhance student learning experiences.

## Research & Development Experience

### Avanathi Research Hub | Senior member & Software Leader

- Established a collaborative research group to address real-world technical challenges across university departments.
- Led the development of an autonomous search-and-rescue drone capable of detecting individuals in disaster areas and delivering survival kits.
- Developed a real-time computer vision system using Python, OpenCV, and the YOLO model, implemented on a Raspberry Pi.
- Analyzing industry challenges and hackathon problems to create new proof-of-concept solutions.