



# HARISH ANCULGARI

Phone: +91 9177454533 | Email: [harishpandu548@gmail.com](mailto:harishpandu548@gmail.com) | Hyderabad, 500020

LinkedIn: <https://www.linkedin.com/in/harish-pandu-018427280/> | GitHub: <https://github.com/harishpandu548>

**Portfolio:** [haris-h-portfolio.vercel.app/](https://haris-h-portfolio.vercel.app/)

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## PERSONAL SUMMARY

Motivated and detail-oriented Data Science graduate with strong skills in Full-Stack Web Development, Artificial Intelligence, and Machine Learning. Proficient in JavaScript, TypeScript, Python, and Java, with modern frameworks including React, Next.js, Node.js, and MongoDB. Experienced in building responsive, high-performance web applications using the MERN stack, with hands-on knowledge of data structures, algorithms, API development, authentication, and debugging. Focused on delivering clean UI/UX, optimized performance, and scalable application architecture.

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## EDUCATION

### Bachelor of Technology in Data Science

Malla Reddy College of Engineering and Technology (MRCET), Hyderabad  
Oct 2022 – May 2025

### Diploma in Electrical and Electronics Engineering (EEE)

Govt. Polytechnic Medchal College, Hyderabad  
July 2019 – May 2022

### Secondary School Certificate

Martinet High School, Hyderabad  
May 2018 – May 2019

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## CERTIFICATIONS

- AI for Beginners - HP LIFE
- Data Science & Analytics - HP LIFE
- Introduction to Cybersecurity Awareness
- Relational Database Management System (RDBMS)
- Wadhwani Foundation Certificate

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## TECHNICAL SKILLS

- **Full-Stack & Frameworks:** MERN Stack, NextAuth.js, React Router, Redux Toolkit, Context API, Mongoose, Dotenv, Session Management, Protected Routes
- **Frontend Development:** HTML5, CSS3, JavaScript (ES6+), TypeScript, React.js, Next.js, Tailwind CSS, Bootstrap, Responsive UI/UX, Axios, React Hook Form, Framer Motion, Client-Side State Management
- **Backend Development:** Node.js, Express.js, REST APIs, JWT Authentication, Node Middleware, MVC Architecture, Database Modeling, Error Handling, File Uploads (Multer), Cloudinary Media Storage
- **Programming Languages:** JavaScript, TypeScript, Python, Java
- **Databases & Cloud:** MongoDB, Cloudinary, Railway, Render, Vercel Deployment
- **DevOps & Tools:** Git, GitHub, Postman, Thunder Client, Chrome DevTools, Nodemon, CI/CD Basics, Proxy Configuration
- **AI & Machine Learning:** Deep Learning, Neural Networks, Model Training & Evaluation

## INTERNSHIP EXPERIENCE

### Portfolio Website – Personal Portfolio | Next.js, Tailwind CSS, Framer Motion

#### Frontend Developer — Self-Initiated Internship

Apr 2025 – May 2025

- **Live:** [haris-h-portfolio.vercel.app/](https://haris-h-portfolio.vercel.app/)
- Designed a modern, fully responsive portfolio website showcasing projects, certifications, resume, and contact channels.
- Integrated smooth scroll navigation, interactive animations, and micro-interactions using Framer Motion to improve visual appeal and user engagement.
- Enhanced mobile and desktop experience across all screen sizes, strengthening professional presence and accessibility for recruiters.

### Mega Blog App – Blogging Platform | React + Appwrite

#### Front End Developer – Self-Initiated Internship

January 2025–April 2025

- **Live:** [appwrite-megablog-weld.vercel.app/](https://appwrite-megablog-weld.vercel.app/)
- **GitHub Repo:** [github.com/harishpandu548/AppwriteMegablog](https://github.com/harishpandu548/AppwriteMegablog)
- Built a feature-rich blogging platform with full CRUD functionality for posts, including image upload and secure user authentication using Appwrite.
- Applied dynamic routing, form handling, and responsive UI components to ensure smooth user interactions across devices.
- Perfected data fetching and state management to boost load times and enhance overall application performance.

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## PROJECTS

### Auth Profile – Next.js Full-Stack App | TypeScript + NextAuth + MongoDB

- **Live:** [project2-tau-olive.vercel.app/](https://project2-tau-olive.vercel.app/)
- **GitHub Repo:** [github.com/harishpandu548/project2](https://github.com/harishpandu548/project2)
- Developed a full-stack authentication system supporting signup, login, logout, and secure session handling using Next.js and NextAuth
- Built a dynamic user profile module that allows updating personal details and profile images through protected routes and server-side middleware
- Implemented MongoDB + Mongoose for data modeling, with bcrypt.js for secure password hashing and efficient user management.
- Added Google OAuth integration, robust form validation, structured error handling, and session-based redirects to enhance reliability and user experience.

### Clone Tube – YouTube Clone | MERN Stack

- **Live (Frontend):** [clonetube-frontend.vercel.app/](https://clonetube-frontend.vercel.app/)
- **Live (Backend):** [clonetube-clone-of-yt-backend.onrender.com/](https://clonetube-clone-of-yt-backend.onrender.com/)
- **GitHub (Frontend):** [github.com/harishpandu548/Clonetube-frontend](https://github.com/harishpandu548/Clonetube-frontend)
- **GitHub (Backend):** [github.com/harishpandu548/Clonetube](https://github.com/harishpandu548/Clonetube)
- Engineered a complete video-sharing platform with core features including video upload, like/dislike actions, commenting, subscriptions, playlists, and watch history.
- Created a secure backend using JWT-based cookie authentication and middleware-driven route protection for consistent user access control.
- Integrated Cloudinary for enhanced media storage, Deployed responsive UI using Tailwind CSS, and introduced Dark Mode for streamlined accessibility.

### Heart Disease Prediction Using Bio-Inspired Algorithms

- Applied Genetic Algorithm, BAT, and ABC optimization techniques to enhance prediction accuracy compared to traditional machine learning models.
- Constructed modular components for data preprocessing, file upload, model training, and automated evaluation workflows.
- Analyzed performance metrics to select the most efficient algorithm, improving model reliability for real-world medical prediction tasks

#### **Diabetic Retinopathy Detection Using CNN**

- Assembled and trained a Deep Convolutional Neural Network (DCNN) to identify early-stage diabetic retinopathy from retinal images.
- Processed large-scale medical image datasets with augmentation and normalization to optimize model robustness.
- Integrated visual analytics to display prediction outputs and highlight diagnostic confidence levels.

#### **Image Forgery Detection Using Deep Learning**

- Built a hybrid CNN + LBP (Local Binary Pattern) model to classify real versus manipulated images with improved detection accuracy.
- Preprocessed image datasets using feature extraction and noise pattern analysis to enhance classification performance.
- Evaluated the model across multiple forgery types to ensure reliability and generalization.

#### **Voice Assistant Using Python**

- Established a Python-based NLP assistant capable of retrieving web data, opening applications, and executing user commands through voice interaction.
- Wired speech-to-text and text-to-speech modules with upgraded query processing for faster responses.
- Enhanced recognition accuracy by 30% through augmented noise handling, intent parsing, and response generation logic

