# Nagendra Kumar Gubbala

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## Education

- **B.Tech** in *Computer Science and Engineering (AI & Data Science)*
  **Institute:** BVCE | **Year:** 2023–Present | **CGPA:** 7.72

- **Diploma** in *Computer Engineering*
  **Institute:** BVCITS | **Year:** 2020–2023 | **Percentage:** 73.8%

- **SSC - ZPP High School** | **Year:** 2020 | **Marks:** 542

## Experience

**R&D Intern**, Edgefx — Hyderabad

- Developed product code for an **automatic hand sanitizer** using **Arduino**, focusing on IoT integration.
- Gained hands-on experience in **IoT technologies** and prototype development.

**Machine Learning Intern**, IBM

- Worked on an NLP **sentiment analysis** project to classify and analyze textual sentiments.
- Gained practical experience with machine learning algorithms, data preprocessing, and model evaluation.

## Projects

**Gender Prediction System | [Link](#)**

- Developed a web app for gender prediction with 89% accuracy.
- Integrated **Firebase** for secure login and data management.
- Built a **Flask backend** with **MongoDB**, supporting 1,000+ monthly predictions.
- Deployed on **Vercel** & **Azure** with CI/CD pipelines, cutting deployment time by 40%.
- **Technologies:** React, Flask, Firebase, MongoDB, ML
- **Algorithms Used:** Vectorizer, Decision Trees, Random Forest, SVM, Logistic Regression

**Payroll Management System | [Link](#)**

- Developed a Payroll System, advancing to state level in **Andhra Pradesh TechFest 2022**.
- Implemented salary calculations, deductions, and payslip generation with secure authentication.
- Improved payroll efficiency by 30%.
- **Technologies:** HTML, CSS, JavaScript, PHP, MySQL

**BVC RAG AI | [Link](#)**

- Developed a **Retrieval-Augmented Generation (RAG)** system for academic knowledge retrieval and AI-driven Q&A.
- Integrated **Next.js**, **MongoDB**, **Pinecone**, and **Clerk** for secure, efficient data handling.
- Deployed custom **Hugging Face models** and used **DeepSeekR1** for improved document understanding and query response.
- **Technologies:** Next.js, MongoDB, Pinecone, Clerk, Hugging Face, DeepSeekR1.

## Skills

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|---|---|
| **Languages:** Java, Python, SQL, JavaScript (Basics) | **Platforms:** MongoDB, Vercel, Azure |
| **Frameworks:** React, Flask, Next.js, Tensorflow | **Additional Tools:** PyCharm, WebStorm |
| **Tools:** Git, GitHub, Firebase, CI/CD, Postman, VS Code | **Open Source Contributions:** Supabase, MSI-EC |