Dhiyanesh G

Roll No.:220106024
B.Tech - Biosciences and Bio-Engineering
Indian Institute of Technology, Guwahati

+91-7092695851
dhiyaneshg05@gmail.com
www.dhiyanesh.me
github.com/dhiyanesh5
linkedin.com/in/dhiyanesh-g-

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	7.32 (Current)	2022-Present
Senior Secondary	CBSE Board	94.20%	2021
Secondary	CBSE Board	91.60%	2019

EXPERIENCE

- **Godrej Enterprises Group** — *June 2025 - July 2025*
  XR(Extended Reality) Developer Intern — Mumbai, India
  - Architected a scalable **2-tier cloud infrastructure** for XR applications,a hybrid & cost-effective model that eliminated vendor lock-in.
  - Engineered an **AI-Driven Safety Training PoC** for Meta Quest 3, implementing an on-device ML model for real-time detection of **80+ object classes** with a target performance of over **15-30 FPS**. Collaborated with **cross-functional teams** to deliver optimized UX.
  - Built a **real-time MR recognition pipeline**, using **custom ML model** to identify employee & render their data as a **UI overlay**.
  - Received a **Letter of Recommendation** recognizing outstanding performance and significant contributions to the project.
- **Technology Incubation Centre - IITG** — *September 2025 - Present*
  Workflow Automation Intern — Guwahati, India
  - Designing a **Role-based SharePoint workflow** integrating **Microsoft Power Automate** to digitize existing manual incubation processes.
  - **Automated** multi-stage approvals and compliance tracking with auto-generated decision letters, email notifications, and audit logs.
  - Developing interactive dashboards in **Power BI** for real-time monitoring of incubation status, deadlines, and equity/IP compliance.
- **Gotisheel Technologies** — *Jan 2025 - May 2025*
  Software Developer Intern (Remote) — Guwahati, India
  - Refined **Object detection pipelines** by using **YOLOv8** & **Faster R-CNN** for real-time PPE detection in industrial surveillance systems.
  - Optimized complex model performance through advanced **Image Preprocessing** and **Hyperparameter Tuning** methodologies, achieving significant **32.8%** improvement in F1-score (0.6378) and **55.8%** enhancement in mAP@0.5 (0.6821).

PROJECTS

- **AI for XR PoC** — *July 2025*
  Personal project - AI Integrated Mixed Reality (MR) safety training PoC — **bit.ly/aixr**
  - Built a **Mixed Reality** application for worker on-boarding to deliver contextual safety protocol descriptions on Meta quest 3.
  - Pitched & integrated *Multilingual* description features supporting **6 languages** with native script rendering to cater regional workers.
- **ProteinGPT** — *July 2025*
  Personal project - Bio-Visualization Web Platform (Voice + VR) — **bit.ly/protin**
  - Created ProteinGPT, an interactive Bio-visualization platform with voice control, multilingual interface, 3D molecular rendering
  - Developed as a PoC tool, it uses a custom knowledge base of **15+ proteins** and fluorophores with chat-style and voice-driven queries.
  - Ideal for Education, VR demos, and extending into future AI-powered Interactive biomedical assistants.
- **CardioCare Web App** — *December 2024*
  Team project - Full-Stack Heart Disease Prediction Platform — **GitHub | bit.ly/cardcar**
  - Constructed a **Full-Stack web application** using **Flask** backend trained on Random Forest ML model with **85%+** accuracy.
  - Built responsive front-end interface with modern **HTML5, CSS3, JavaScript** and efficient **RESTful API** architecture for predictions.
- **BSBE Alumni Website** — *September 2024*
  Group project - Full Stack MERN Alumni Management System — **GitHub | bit.ly/bioapage**
  - Architected **MERN stack** web app with **Firebase authentication**, serving **50+ active users** and managing **1500+ alumni profiles**.
  - Implemented **query-based filtering** using **MongoDB aggregation pipelines** and **Express.js** middle-ware for efficient data retrieval.
  - Designed **scalable database schema**, implemented **role-based access control**, and created **admin dashboard** for profile management.

TECHNICAL SKILLS

- **Programming Languages**: Python, C++, C#, R
- **Web Development** : React.js, Node.js, Express.js, HTML, CSS
- **Machine Learning**: TensorFlow, Scikit-learn, YOLO, Faster R-CNN, ONNX
- **Database Management**: SQL, AWS, MongoDB
- **APIs & Deployment**: REST API, Flask API
- **Miscellenous**: Git/GitHub, Unity Engine, Figma

KEY COURSES TAKEN

- **Computer Science**: Data Structures & Algorithms, Deep Learning Internals, OOPs, System Design, Introduction to Computing.
- **Technical Certifications**: Advanced Learning Algorithms, The Complete Python Developer, Google AI Essentials Certificate.
- **Relevant Coursework**: Linear Algebra, Probability, Biological Data Analysis, Bio-informatics, Multi-variable Calculus, PDE, ODE.

ACHIEVEMENTS

- **Sports Excellence**: Won **8 medals** across Kabaddi, Kho-Kho & Athletics at Spardha; two-time **Gold Medalist** at Spirit 2023 & 24.
- **Cultural Achievement**: Manthan, Inter-hostel cultural competitions, represented hostel in Group Dance for last 2 years.
- **Academic Achievement**: SOF 16th National Cyber Olympiad - Gold Medal (School Topper), City Topper (Rank 7).

POSITIONS OF RESPONSIBILITY

- **Secretary**, Kabaddi Club, IIT Guwahati. — *Apr. 2025 - Present*
  - Organized Institute's first-ever Kabaddi Open Tournament managing **110+ players** from Assam region and **200+ audiences**.
- **Design Head**, Election Commission, IIT Guwahati. — *Feb. 2025 - Apr. 2025*
  - Led design and social media branding for the institute's Election Commission, driving a record **62.5% voter turnout** (4,693/7,500).