DIPANSHU KUMAR MISHRA

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EDUCATION

National Institute of Technology Agartala — 2022- 2026
B.Tech in Electrical Engineering — CGPA: 7.53/10

Tulsi Vidya Niketan, Varanasi — 2022
CBSE Class XII — Percentage: 91.8%

Tulsi Vidya Niketan, Varanasi — 2020
CBSE Class X — Percentage: 93.2%

EXPERIENCE

BlueStock – **SDE Intern** (Certificate)   *April 2025 – May 2025 (Remote)*

- **Led** a 10-member team to develop a **Full-Stack IPO Web Application** using **Node.js, Express, MongoDB, React, and Tailwind CSS**, featuring **30+** IPO listings, live CMP updates, listing gains tracking, and real-time RHP/DRHP PDF access.
- Designed and guided **10+ secure RESTful APIs** with **JWT authentication**, **Mongoose models**, and **Multer + AWS S3** integration, enabling efficient upload and retrieval of **100+** company documents and assets.
- Streamlined development workflows in an **Agile environment**, using **GitHub for version control** and **Postman for API testing**, improving feature delivery speed by **25%** and overseeing **admin dashboard** and **database structuring**.

IIT Patna – **Winter Engineering Intern** (Certificate)   *October 2023 – January 2024 (Patna)*

- Contributed to the **Flood Area Segmentation project** involving an **Attention-Gate & Recurrent-Residual CNN-based U-Net model,** by curating and labeling over **100+** satellite images to build a precise and structured dataset**.**
- **Tagged and annotated 100+** satellite images using **Label Studio**, creating a well-structured, high-quality dataset for model training and validation that boosted segmentation accuracy by **15%**.
- Utilized **Anaconda** for **environment setup and dependency management**, reducing setup time by 40% and ensuring consistent deep-learning framework configuration.

PROJECTS

Redgold – Link

- Developed a **Full-Stack Blood Bank Management Web Application** using the **MERN stack (MongoDB, Express, React, Node.js)**, supporting **secure user authentication**, blood inventory tracking, and appointment booking for **100+** simulated users.
- Engineered **10+ RESTful APIs** with **JWT-based authentication**, **bcrypt encryption**, and **role-based access (User/Admin)**, achieving **100%** API reliability across user, booking, and blood data modules.
- Built a **responsive React frontend** with **React Router** and **Context API**, enabling real-time synchronization and improving user engagement and dashboard interactivity by **30%.**

SLCS – Link

- Created a **role-based complaint management system** using **Node.js, Express.js, MongoDB, and Mongoose**, enabling **100+ simulated users** to register, authenticate via **JWT**, and submit civic complaints with real-time status tracking.
- Architected **10+ secure RESTful APIs** with **authentication, authorization middleware, and Admin/User role separation**, ensuring **100% protection of admin routes** and end-to-end complaint lifecycle management.
- Integrated **image uploads via Multer and Cloudinary**, optimized database schemas, and reduced manual complaint tracking by **40%** through centralized admin-controlled resolution workflows.

TECHNICAL SKILLS

Languages: C++, JavaScript, Python, HTML/CSS
Frameworks/Tools: Node.js, Express.js, React, MongoDB, Firebase, Git, GitHub
CS Fundamentals: Object Oriented Programming, Operating System, DBMS, Computer Networks

CODING PROFILES

- **Leetcode**: Solved 1000+ data structure and algorithm problems (max rating - 1807) (handle - dipcoderr)