Siddhant Dubey

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Education

Indian Institute of Technology (Indian School of Mines), Dhanbad	Expected May 2027
Integrated Master of Technology in Mathematics and Computing (GPA: 8.47/10.00)	*Dhanbad,Jharkhand*

- **Relevant Coursework:** Data Structures and Algorithms (C++), Prob & Stat , Object Oriented Programming(C++), Linear Algebra, C Programming, DBMS

Projects

Document Scanner Pro — *A full-stack web app for scanning, classifying, and managing documents using OCR and NLP.* **GitHub**

- **Tech Stack** - React.js, Tailwind CSS, Vite, Express.js, TypeScript, PostgreSQL, Firebase Storage, Tesseract.js (OCR), spaCy (NLP), TSX, Concurrently
- **Engineered** a full-stack web application to scan, organize, and classify documents using Optical Character Recognition (OCR) and Natural Language Processing (NLP), enhancing document handling efficiency by **60%**. .
- **Integrated** Tesseract OCR with FastAPI backend to extract text from scanned PDFs and images with **90–95%** accuracy, validated across **50+** test samples.
- **Developed** NLP-based classification using spaCy to categorize documents (e.g., invoices, ID proofs, receipts) and generate dynamic smart tags with **85%** precision.
- **Designed** an intuitive and responsive frontend using React.js and Tailwind CSS, enabling real-time upload, filter, and search functionalities for improved user experience.
- **Implemented** secure user authentication via Firebase Auth and connected Firebase Storage for scalable cloud-based document management supporting files up to **20MB**. .
- **Constructed** modular, RESTful APIs with FastAPI, achieving consistent endpoint response times under **300ms** during stress testing

Technical Skills

Technologies: React.js, Tailwind CSS, FastAPI, Uvicorn, PostgreSQL, Firebase Storage, Firebase Authentication, Tesseract OCR, spaCy, REST APIs, JSON, Axios
Tools & Platforms: Node.js, Git, GitHub, VS Code, Concurrently, npm, tsx
Languages & Markup: JavaScript (ES6+), TypeScript, HTML5, CSS3
Concepts: Modern Web Architecture, Asynchronous Programming, API Integration, Full-stack Development,Data Structures, Algorithm Design and Analysis, Object-Oriented Programming, Database Management Systems, Operating System, Computer Organization and Architecture Probability and Statistics, Discrete Mathematics, Linear Algebra

Achievements

- Secured AIR 12918 in JEE(Advanced) 2022 among 200k+ participants.

- **Discover Yourself –Tutor Point**

  Completed a structured course on self-awareness, emotional intelligence, and spiritual philosophy based on the Bhagavad Gita. Gained insights into stress management, value-based living, and purposeful decision-making.

Social Engagements

Instructor – *Management Principles from the Bhagavad Gita*
- Taught **50+** first-year students core leadership and management principles from the Gita in **60+ min** sessions.

Seminar Speaker – *Soft Skills & Mind Training*
- Delivered **15–60 min** talks on Smart Work, Anger Management, and Mind Control; addressed undergrads and PhD freshers at NGO events.

Volunteer – Seva Patra (NGO), Dhanbad—
- Supported tribal outreach via food drives and education; assisted in event coordination and youth mentorship.