

Munna Kumar

Data Scientist & Full-Stack AI Engineer

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India · Open to remote

8.41

B.TECH CGPA / 10

10+

PROJECTS SHIPPED

30+

PUBLIC REPOS

1000+

STUDENTS TAUGHT

SUMMARY

Data Scientist and full-stack AI engineer who owns the whole build — data pipelines, model training, GenAI agents, and the production app around them. Shipped computer-vision, LLM-powered analytics, multi-agent and full-stack platforms end to end, deployed them on Linux servers, and teaches the same skills to 1,000+ students on YouTube. Strong foundation in data structures & algorithms, SQL, and clean, maintainable Python / TypeScript.

SKILLS

Languages & CS

Python

TypeScript / JavaScript

SQL

Java

Data Structures & Algorithms

OOP

Data & ML

NumPy

Pandas

Matplotlib

Scikit-learn

Feature Engineering

Deep Learning

Computer Vision

OpenCV

YOLOv8

GenAI & Agents

LLMs

RAG

LangChain

OpenAI API

Gemini

Multi-Agent Systems

Prompt Engineering

Text-to-SQL

MLOps

DVC

Experiment Tracking

Model Deployment

CI/CD

Docker

Full-Stack & Cloud

Next.js

React

FastAPI

Node.js / Express

REST APIs

PostgreSQL

MongoDB

AWS EC2

Nginx

Linux

Cloudinary

Git

EXPERIENCE

Meander Software — Data Scientist & Full-Stack Developer

2024 — Present

- Build data-science and ML features end to end — data cleaning, analysis and model development, then integrate them into production apps.
- Develop backend REST APIs and database layers that serve model output and application data to the product.
- Build frontend interfaces and dashboards in React / Next.js on top of those APIs.
- Manage production Linux servers — deployments, Nginx, PM2 process management, SSL, and keeping live services healthy.

PROJECTS

CodeWithMunnaX — Portfolio & Free Course Platform

[live](#)

- Designed and built solo: Next.js (App Router) frontend, FastAPI backend, Neon Postgres, Cloudinary media.
- Built-in admin CMS — projects, blog, courses, newsletter, reviews and site settings editable without code changes.
- YouTube-synced course player (YouTube Data API) with progress tracking and certificate generation.
- Two-layer auth (NextAuth with Google/GitHub/email + server-side admin API key); deployed on AWS EC2 behind Nginx with PM2 and Let's Encrypt SSL.

Next.js · React 19 · TypeScript · Tailwind · FastAPI · SQLAlchemy · PostgreSQL · NextAuth · AWS

QueryMind — AI Analytics Chat

GenAI · Text-to-SQL

[github](#)

- Turns plain-English questions into validated, read-only SQL over a PostgreSQL database.
- Returns instant answers with live charts and written insights; query validation blocks any write/DDL statements.

Next.js · FastAPI · LangChain · OpenAI · PostgreSQL

AutoScan AI — Automatic Number Plate Recognition

Computer Vision

[github](#)

- Real-time plate detection from camera streams with YOLOv8 + OpenCV; EasyOCR with heuristic alphanumeric correction and regional format checks.
- Gemini multimodal reasoning for hard cases; Next.js dashboard with Cloudinary storage and serverless Postgres.

MORE PROJECTS

Interactive 3D DSA Visualizer Algorithms

[github](#) [live](#)

- 3D visualizer engine covering 110+ algorithms — sorting, linked lists, trees, stacks and queues animated in real time.
- Synchronized line-by-line code tracking and sound cues so learners see exactly which line moves which element.

React Three Fiber · TypeScript · Python

HMS — Full-Stack Hospital Management System Full-Stack · AI

[github](#)

- Multi-role RBAC for Admin, Doctor and Patient with separate dashboards and permissions.
- AI-assisted medical scan analysis, inpatient bed matrix, digital e-prescriptions, telehealth and a billing ledger.

JavaScript · Node.js · React · MongoDB · REST APIs

AI Collective — Multi-Agent Orchestration Framework Agentic AI

[github](#)

- Orchestrates multiple autonomous AI agents that split a complex task, communicate, and hand off work to each other.
- Workflow automation layer for planning, delegation and result aggregation across agents.

TypeScript · LLM APIs · Agent workflows

End-to-End MLOps Pipeline MLOps

[github](#)

- Automated preprocessing, training, evaluation and experiment tracking as reproducible pipeline stages.
- Data & model versioning with DVC and continuous deployment through a CI/CD workflow.

Python · Scikit-learn · DVC · CI/CD · Docker

Chest Scan Analysis Medical Imaging · ML

[github](#)

- Preprocessing, visualization and model-based analysis of chest scan images using ML and image-processing techniques.

Python · OpenCV · Deep Learning · Matplotlib

LEARNING TOOLS

MatplotlibX — in-browser Python Matplotlib lab: 50-topic visual masterclass with live plotting, 3D surface studio and a Monaco editor. [github](#)

SQL Visual Simulator — interactive simulator for relational foundations (PK/FK, normalization, JOINS) with live query runners. [github](#)

DSA in Python — core data structures, essential algorithms, LeetCode solutions and time-complexity breakdowns for interviews. [github](#)

Python / NumPy / Pandas / ML notebooks — open-source notes and projects from fundamentals to supervised, unsupervised and deep learning. [github](#)

TEACHING

CodeWithMunnaX — Founder & Instructor, YouTube

2023 — Present

- Teach Python, Data Science, Machine Learning, GenAI and full-stack engineering through project-based tutorials in Hindi.
- Grew a community of 1,000+ learners; full courses run free on codewithmunnax.com with progress tracking and certificates.
- Write long-form technical blog posts and notes that pair with every course.

EDUCATION

B.Tech, Computer Science & Engineering

2020 — 2024

Rajiv Gandhi Proudlyogiki Vishwavidyalaya (RGPV), M.P. CGPA 8.41/10 · 1st Div. with Honours

Intermediate (Science — PCM)

2019

B.N.M.V. College, Sahugarh, Madhepura — BSEB, Patna 77.4% · 1st Division

Secondary School

2017

Prastavit H/S, Gamharia, Madhepura — BSEB, Patna 80.8% · 1st Division

PERSONAL

Languages: English, Hindi

Location: India · open to remote & relocation