Pratham Kothari

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Education

Dayananda Sagar College of Engineering — Bengaluru, India
Bachelor of Engineering – Computer Science and Engineering (Data Science) (CGPA: 9.2) — 2022 – 2026

Sri Bhagawan Mahaveer Jain College — Bengaluru, India
I-II PUC (Percentage: 97.6) — 2020 – 2022

Technical Skills

Programming Languages: Python (Advanced), C++ (Advanced), R Programming, C, Java

Databases: MongoDB, MySQL, PostgreSQL, Snowflake

Data Science/Machine Learning: NumPy, Pandas, PowerBI, Statsmodels, PyTorch, Scikit-Learn, Hugging Face, LangChain, Airflow, PySpark, MlFlow

Developer Tools/IDEs: Jupyter Notebook, VS Code, GitHub, GitLab, Docker, Kubernetes

Internships/Experience

Zummit Infolabs (Data Science Intern) — Remote
Worked on computer vision and BI projects — Nov 2024 – Mar 2025

- Worked on multiple use-cases like **headcount detection** and **gender-age prediction** models.
- Built **Power BI dashboards** for the **Pawprints** project.
- Cleaned and preprocessed large datasets for inferences.

Projects

CogniSync | *Langchain, Flask, API Integration, Nodejs, MongoDB* — GitHub

- Developed **CogniSync**, an **AI-powered learning platform** for ADHD students, utilizing **LangChain**, **API integrations** to enable **personalized learning strategies**, **adaptive task management**, and **interactive study tools**.
- Engineered AI pipelines and backend services with **Flask** and **MongoDB**, supporting seamless integration with a **Node.js** frontend for a responsive user experience.

Retail Analytics | *Pandas, TensorFlow, Statsmodels, Time Series, Seaborn, K-Means* — GitHub

- **Customer segmentation**: Applied **RFM analysis** and **K-Means clustering** on the **Dunnhumby dataset**, identifying key customer segments.
- **Demand forecasting**: Built forecasting models using **ARIMA**, **Auto-ARIMA**, and **LSTM** on the **Walmart sales dataset**.

Super-Resolution GAN for Medical Imaging | *PyTorch, PIL, Streamlit, GANs* — GitHub

- Built a **Super-Resolution GAN** to enhance low-resolution x-ray images from **128×128 to 512×512** resolution.
- Trained using residual blocks and perceptual loss; deployed using **Streamlit** for real-time inference.

EduSync | *Flask, Dash, Plotly, Scikit-learn, PyPDF2, API Integration* — GitHub

- Built **EduSync** for **SIH 2024** to standardize **odd school structures** using **AI-driven classification** aligned with **UDISE+** norms, aiding policy optimization.
- Implemented **machine learning models** for school categorization and automated **data extraction** from educational reports using **PyPDF2** and **Regex**.
- Designed interactive **Dash and Plotly** visualizations for policy insights and data-driven decision making.

Achievements and Extra-Curricular Activities

Smart India Hackathon 2024 Finalist

2nd Place Winner at NITTE IEEE Project Expo

Manipal BioTech Hackathon Finalist

Gold Badge (5 stars) in Python, C++, and SQL on HackerRank

Technical Team Member of College's Department Club

Financial Head of The Science Forum – 2022