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EDUCATION

Aissms IOIT

BTech in Artificial Intelligence and Data Science

Pune, Maharashtra

2022 – Present

PROJECTS

Edulite OS | *Linux, Shell Scripting, Python, Custom ISO, XFCE, Educational Software*

- Created a lightweight Linux distribution tailored for students and educational institutions to enable access through low-end hardware.
- Customized XFCE desktop environment and pre-installed essential educational tools and programming packages.
- Integrated startup scripts and simplified UI for ease of use in classrooms and labs.
- Used **Debian/Ubuntu base** and tools like **Cubic** and **chroot** to build a functional and portable custom ISO.

Aryabhata Search | *Next.js, TypeScript, Tailwind CSS, Prisma, Supabase, Groq LLM*

- Developed an AI-powered educational search engine unifying content from kindergarten to post-graduation.
- Integrated Groq LLM for personalized summaries and TfidfVectorizer for recommending resources.
- Added features like forums, parental controls, and 3D model support using Supabase and Google Custom Search API.

Fantasy Sports Optimisation Algorithm | *Linear Programming, XGBoost, PuLP, MLOps, Docker*

- Engineered an AI-driven optimization model using XGBoost and linear programming (PuLP) to automate fantasy team selection.
- Pioneered a multi-constraint algorithm balancing budget, player roles, and recent form, achieving 32% higher accuracy.
- Spearheaded end-to-end development: web scraping ESPN data, preprocessing with Pandas, and MLOps pipelines for scalable retraining.

Conference Paper Publishability Classifier | *Python, SciBERT, Sentence Transformers*

- Built a semi-supervised classifier to assess paper publishability and suggest top conferences(CVPR, NeurIPS,etc.).
- Used SciBERT for embeddings and cosine similarity to match papers with topics.
- Improved results with a RandomForest-based self-training model trained on labeled and unlabeled data.

TECHNICAL SKILLS

Languages: Python, C/C++, SQL, JavaScript, Bash, HTML/CSS

Frameworks: Flask, Streamlit, Django, Next.js

Developer Tools: Git, VS Code, Jupyter Notebook, AWS SageMaker, GitHub, Cubic, chroot, Docker

Libraries: Pandas, NumPy, Matplotlib, Scikit-learn, Seaborn, Plotly, Sweetviz, Autoviz, XGBoost, PuLP, Sentence Transformers

APIs: Google Custom Search API, Groq LLM, OpenAI API

Operating Systems: Linux (Ubuntu, Debian), Custom ISO Development

Kaggle Contributions: Developed and shared multiple projects on machine learning and data analysis.

ACHIEVEMENTS

Techathon 2.0 – Best Solution Winner *Feb 2025*

- Secured Best Solution award for building **Aryabhata Search**, an AI-powered educational platform.

IIT Kharagpur Data Science Hackathon – Finalist *Jan 2025*

- Developed a semi-supervised ML model for classifying research paper publishability.

AIT Ideathon – First Place Winner *Mar 2025*

- Won 1st place at Army Institute of Technology Ideathon by presenting the **Conference Paper Publishability Classifier** project.