Koushik Yalamarthi

National Institute of Technology, Delhi
koushikyalamarthi3@gmail.com | +91-9713143888 | **in** Koushik Yalamarthi | ⌂ Koushik Yalamarthi

EDUCATION

Degree	Specialization	Institute	Year	GPA/%
B.Tech	Artificial Intelligence and Data Science	NIT Delhi	2023–2027	7.94
Intermediate	CBSE (MPC)	Sasi Junior College	2021–2023	89.4%
SSC	-	Sasi EM High School	2020	99.83%

PROJECTS

- **Medical Shop Management Web App:** *Tools: [Python, Streamlit, Pandas, AI, Email, Flask]*

  - Engineered a **Streamlit-based web platform** to manage over **500+ medicines** across 3 categories, optimizing inventory restocking workflows.
  - Integrated an **AI-powered recommendation system** to rank the top **10 frequently purchased medicines**, enhancing stock planning and sales strategy by **25%**.
  - Automated daily parcel updates and dispatched real-time **email notifications** to **20+ users**, streamlining communication regarding delivery status.

- **Parking Management System:** *Tools: [Arduino, Flask, HTML, CSS, JavaScript]*

  - Architected a smart campus parking solution using **Arduino sensors** to monitor **20+ slots**, enabling real-time availability tracking.
  - Built backend APIs with **Flask** and programmed sensor control logic, enhancing slot utilization efficiency by **40%** during high-traffic hours.
  - Delivered a mobile-friendly frontend for **100+ users**, reducing slot detection errors by **90%** and ensuring reliable system performance for over a month.

- **Email Spam Classifier:** *Tools: [Python, Scikit-learn, Flask, Streamlit, Matplotlib]*

  - Built a text classification model using **Naive Bayes**, trained on **5,000+ emails** and achieved **92% accuracy** through robust preprocessing techniques.
  - Deployed a live prediction interface via **Flask** and **Streamlit**, improving responsiveness by **30%** compared to baseline solutions.
  - Visualized **10,000+ tokens** with dynamic WordClouds to extract and analyze dominant spam phrases, reinforcing model interpretability.

TECHNICAL SKILLS

- **Languages:** Python, C/C++, JavaScript, SQL, HTML5, CSS3
- **Libraries Frameworks:** NumPy, Pandas, Matplotlib, Scikit-learn, Streamlit, Flask, React.js
- **Tools Platforms:** Jupyter Notebook, Git, Linux, VS Code, MySQL, Microsoft Excel

COURSEWORK

- Python, Data Structures and Algorithms, Operating Systems, Database Management Systems, Probability and Statistics, Data Mining, Big Data, Data Science, Artificial Intelligence, Machine Learning.

CERTIFICATIONS

- **Advanced SQL** – Kaggle [View Certificate]
- **Intro to Python Programming** – Kaggle [View Certificate]
- **Machine Learning** – Kaggle [View Certificate]
- **LeetCode DSA Practice** – Solved over **100+ coding problems** on data structures and algorithms. [LeetCode Profile]

HONORS AND AWARDS

- **LPUNEST 2023** – Top 500 rank, INR 1 Lakh Scholarship
- **JEE Advanced 2023** – AIR 14,400
- **JEE Mains 2023** – Ranked within top 0.93%