AGRASEN PATEL

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EDUCATION

Noida Institute of Engineering and Technology, Greater Noida, India **2022-Present**
Bachelor of Technology, Computer Science & Engineering (Data Science) CGPA:7.54

- Relevant Coursework: Data Structure, Algorithms, Operating System, DBMS

Sunbeam School, Robertsganj, India **2020 - 2022**
Intermediate Percentage: 83%

Sunbeam School, Robertsganj, India **2018 - 2020**
High School Percentage: 86%

PROJECTS

Gumshuda (The Missing) – AI-Powered Missing Person Tracking System

Technologies: Python, React, SQL, OpenCV, TensorFlow

- Engineered an AI system to detect and track missing persons, increasing case resolution by **35%** using real-time geolocation and facial analysis.
- Streamlined alert notifications and case updates, minimizing human effort by **40%** and enhancing operational reliability
- Refined search algorithms to reduce response latency by **50%**, improving performance under real-time constraints.
- Developed and fine-tuned deep learning models achieving 92.4% facial recognition accuracy across a test set of 50,000+ images.
- Simulated **500+ scenarios** to evaluate scalability, precision, and system fault tolerance.

Heart Disease Prediction Modeling

Technologies: Python, SQL, Tableau, Apache Spark

- Designed a robust ML model with **87% accuracy**, predicting heart disease risk from health records.
- Scaled data processing workflows for **100M+ records**, cutting ETL time by **60%** using Apache Spark.
- Built and deployed **5+ Tableau dashboards** for real-time analytics, supporting strategic decisions by **20+ stakeholders**.
- Conducted advanced feature engineering on **200+ features**, boosting model efficiency by **15%.**
- Improved model reliability by 28% through rigorous A/B testing and statistical validation across 3 experimental cohorts.

Lexa – AI Virtual Assistant

Technologies: Python, SQL, Tkinter

- Developed a multi-functional AI assistant integrating NLP, automation, and real-time task handling.
- Designed and deployed a GUI serving **100+ daily users**, enhancing usability and accessibility.
- Integrated external APIs (weather, news), while managing user interactions via MySQL backend.
- Applied regex and parsed over 10,000+ input files to accurately interpret and standardize user inputs, reducing input errors by 35%.
- Modularized codebase, improving maintainability and enabling **30% faster feature rollout**.

SKILLS

- **Languages**: Python, Java, R, HTML, CSS
- **Database**: SQL, MongoDB
- **Mathematics**: Algebra, Probability, Statistics, Calculus, Matrices
- **AI/ML/DS**: Data Visualization, Prompt Engineering Supervised/Unsupervised Learning Algos.
- **Libraries and Frameworks**: TensorFlow, PyTorch, NumPy, Pandas, Matplotlib, OpenCV, Keras, Scikit-learn, Seaborn, Beautiful soup
- **Tools and Software**: Git, GitHub, Docker, AWS

CERTIFICATES

- Python for Data Science, AI and Development Coursera