

ANKIT SINGH

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EDUCATION

Ramaiah Institute of Technology, Bangalore, Karnataka Dec. 2022 – Present
Bachelor of Education in Computer Science and Engineering, GPA: 8.91

Sarvodaya Senior Sec. School, Kota, Rajasthan 2019 - 2021
Intermediate, Percentage: 88.8

SKILLS

Programming Languages: C++, Python, SQL
Data Science Tools: Jupyter, TensorFlow, Scikit-learn, Kaggle, MongoDB, MS-Excel
Data Visualization: Power BI, Tableau
Soft Skills : Time Management, Problem-solving, Hardworking

EXPERIENCE

Research Intern Sept 2024 - Present
Samsung Research and Development Institute Bangalore, Karnataka
Project: Sound Event Localization and Detection Using Fixed 2-Microphone Geometry from Smartphone

- Conducted extensive Exploratory Data Analysis (EDA) on sound event localization and detection data using Deep Learning and Data Science techniques.
- Assisted in developing a lightweight sound event detection model under 5 MB, optimized for Samsung smartphones using fixed 2-microphone geometry.
- Leveraged pre-trained models from Hugging Face and other AI platforms to enhance model performance and accuracy in real-world deployment.

PROJECTS

Diabetes Prediction Web App:-

Model Implementation: Developed a diabetes prediction app using supervised machine learning techniques to classify users as diabetic or non-diabetic based on key health parameters.

Exploratory Data Analysis (EDA): Performed EDA on the dataset to optimize features and improve the quality of data for training and testing the model.

Web App Deployment: Built an interactive web interface using Streamlit, allowing users to input data (e.g., Glucose level, BMI) and receive real-time predictions with upto 90% accuracy.

Movie Recommender System:-

Data Collection: Utilized a dataset of TMDB 5000 movies, focusing on genre, actors, and directors.

Data Processing: Applied text vectorization, stemming, and EDA for feature extraction and accuracy.

Recommendation Engine: Developed to suggest the top 5 movies with similar genres and actors.

Deployment: Hosted the system on Streamlit for user interaction.

ACHIEVEMENTS

- Reached Top 10 Teams of SecurIT Hackathon (May 2024)
Achieved top 5 ranking in a cybersecurity competition by the SecurIT Club at MSRIT.
- Flipkart Unstop Grid 4.0 (May 2023) Advanced to the second round, ranking among the top 8,000 out of over 75,000 teams.

CERTIFICATIONS

- **Machine Learning and Data Science** – Geeks for Geeks

Successfully completed a 26-week "Complete Machine Learning & Data Science Program" from GeeksforGeeks, gaining comprehensive knowledge in machine learning and data science concepts. Equipped with practical skills in data analysis, model development, and deployment.

- **MongoDB Developer's Toolkit: CRUD Mastery with Python** – Geeks for Geeks

Certified in MongoDB Developer's Toolkit: CRUD Mastery with Python by GeeksforGeeks, covering fundamental to advanced CRUD operations, data modeling, and performance optimization techniques in MongoDB using Python. Gained hands-on experience in managing and manipulating NoSQL data, enhancing proficiency in Python-MongoDB integration for robust application development.

- **Data Visualization** – Kaggle

Completed an intensive online data visualization course on Kaggle, developing over 10 unique visual representations that clarified complex datasets and facilitated discussions among peers regarding best practices in presenting analytical insights.