Prakalya SK

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Profile

Rising sophomore at SRM University-AP with a major in Computer Science and Engineering. Passionate and integrate about doing research in various fields with the help of intended major.

Education

SRM University-AP   *Amaravati, India*

BTech in Computer Science and Engineering   *Sept 2021 - Current*

- **Specialization:** Artificial intelligence and Machine learning (AI & ML)
- **CGPA:** 8.9/10.0

Ongoing Research

Machine Learning for the Prediction of biogas production   *Amaravati, India*

—Net zero lab, SRM University-AP   *Dec 2022 - Present*

- Developing a dynamic model for the prediction of biogas production using various features.

Projects

Optimization of battery power loss in electric vehicles using PSO and Firefly algorithms.   *Amaravati, India*

SRM University-AP   *Sept 2021 - Nov 2021*

- Created our own dataset regarding battery power loss in electric vehicles and also handled the usage of ML algorithms in this project.
- Analysed the data with time series graphs and optimized the power loss of battery by using data science.

Smoke Detection   *Amaravati, India*

SRM University-AP   *Aug 2022 - Sept 2022*

- Analysed 60K+ data points, for which of the input features that it detects the smoke and activates the fire alarm.
- Developed a model with an accuracy of 99% by using Random Forest algorithm.
- **Techincal Skills:** Data pre-processing, Machine Learning, Python.

Brain Stroke Analysis   *Amaravati, India*

SRM University-AP   *Aug 2022 - Sept 2022*

- Analysed 4K+ data points and recognised the different patterns that a person would get brain stroke or not.
- Developed a model with an accuracy of 98% by Random Forest algorithm.
- **Techincal Skills:** Data pre-processing, Machine Learning, Python.

Flight Analysis   *Amaravati, India*

SRM University-AP   *Feb 2022 - Mar 2022*

- Analysed 10K+ data points by checking the routes, departure, Arrival etc to predict the price of the flight.
- **Techincal Skills:** EDA, Data pre-processing, Python libraries.

Skills

Programming	Python (Pandas, NumPy, Matplotlib,etc.), C/C++, Java, Data Structures, Machine Learning, Deep Learning, DevOps, Flask, HTML/CSS.
Soft Skills	Research, Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentation.

Word Experience

Ecell Club - EXPLORique Team   *Amaravati, India*
SRM University, AP - Full-time   *Feb 2022 - Present*
- **Skills:** Leadership, TeamWork

Languages

English Professional proficiency
Tamil Native proficiency
Telugu Bilingual proficiency
Hindi Bilingual proficiency