

# Avinash Bhojanapalli

 droidmaximus |  Avinash Bhojanapalli |  avinash.b20@iiits.in |  +91 9121752596

## SUMMARY

---

Data Scientist working on remote sensing and spatial data analysis. App developer in Flutter and Kotlin. 4th Year Computer Science Honors Undergraduate at IIIT Sri City.

## WORK EXPERIENCE

---

### Data Science/ML TA, Scaler

Nov 2022 - Present

- Guided over 200 students in the Data Science course offered by Scaler.
- Evaluated and created assessment components to make the course more industry oriented.

### Machine Learning Engineer Intern, Incirbo

Jan 2024 - Present

- Worked with neuroevolution (CPPN-NEAT), capsule and multimodal fusion networks.
- Fine-tuned and prompt engineered multiple open-source models such as LLMs and Diffusion models for various use cases

## CLUB EXPERIENCE

---

### Vice President, Matrix IIIT Sri City

Aug 2022 - Aug 2023

- Created the problem statement and the dataset, and developed an automated evaluation software for an inter-college Data Science Hackathon.
- Took a Session on AI/ML for over 100+ students regarding bayesian modelling and building a chess bot using reinforcement learning.

## PROJECTS

---

### HealAI

[Link to Project](#)

- Created a Logistic regression model to calculate the confidence score of an at-risk patient requiring social intervention, labelled as social score.
- Exported the model onto a pickle file and hosted it in a django backend and react frontend environment.

### A CALIPSO observation based 3-Dimensional Tropospheric Aerosol-classification model (CALMAC) over the Indian city Delhi (First Author)

[Link to Paper](#)

- Accepted for the IGARSS 2023 conference conducted by IEEE.
- Uses The L2 Vertical feature mask profile of NASA's CALIPSO satellite with validation set taken from ground station data and ERA5 satellite data.
- Created a multi output gaussian predictor along with Random forests and Extra tree classifiers to predict the vertical aerosol distribution in Delhi during Diwali

### Volume and Brightness control using gesture detection

[Link to Project](#)

- Used MediaPipe data for hand landmark detection
- Created slider using distance between landmarks

### KafkaGPT

[Link to Project](#)

- Created a bigram language model and trained it using the written works of author Franz Kafka
- Created a generative pretrained transform to generate tokens that mimics Kafka's writing

# EDUCATION

---

|             |   |                |
|-------------|---|----------------|
| 2020 - 2024 | B.Tech CSE (Hons.) <b>IIIT Sri City</b> | (GPA: 8.22/10) |
| 2020        | Class 12th                              | (GPA: 9.8/10)  |

# SKILLS AND CERTIFICATIONS

---

|                               |  |
|-------------------------------|--|
| Google Cloud and Data Science | <a href="#">Link</a>   |
| Languages                     | Flutter,Kotlin,Javascript,R,Python,Java,C/C++  |
| Frameworks and Libraries      | Jetpack,NodeJS,Django,ReactJS,Seaborn,Matplotlib,Pandas,Numpy, TensorFlow,Scikit-Learn,Pytorch |
| Databases                     | Room DB,MySQL,MongoDB  |
| Cloud Platforms               | Google Cloud Platform,AWS  |