

# Dhanush Chaliceemala

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## EDUCATION

### University of California,Riverside

Master's, Computational Data Science(GPA: 3.8)

September 2024 – Present

Riverside, California

### Vellore Institute of Technology,Vellore

Bachelor of Technology, Information Technology(GPA: 8.43)

July 2020 – May 2024

Vellore, Tamil Nadu

## SKILLS

- **Languages:** Python (Pandas;NumPy;Matplotlib;NLTK;Keras;Seaborn;Tensorflow); SQL
- **Databases:** MySQL; Google Cloud Storage; Amazon DynamoDB
- **Machine Learning:** Linear Regression; Logistic Regression; Decision Trees; SVM; KNN;Neural Networks
- **Other Tools:** AWS; Google Cloud Platform; Tableau; Git; Jupyter Notebook

## EXPERIENCE

### Vellore Institute of Technology ([Link](#))

June 2022 – July 2024

#### Research Assistant under Dr.B.Valarmathi

- Engineered predictive models using **ANN/RNN architectures** achieving **95.7%** accuracy with SMOTE balancing.
- Designed and deployed an LSTM-based sentiment analysis model, achieving **96%** accuracy across **179K COVID-19 tweets** to drive actionable, data-driven insights.
- Streamlined data preprocessing pipelines, boosting ANN/RNN accuracy by **20%** under Dr. B. Valarmathi's guidance.

### Eavetop Softtech Private Limited([Link](#))

December 2023 – July 2024

#### Data Scientist Intern

- Engineered automated CAD system using **U-Net/Mask R-CNN**, processing **10K+** aerial images at **98%** accuracy.
- System achieved **40% reduction** in measurement time and improved accuracy compared to manual methods.
- Enhanced the roof measurement process by **reducing report drafting time by 50%** and **cutting costs by 30%**.

### Amara Raja Group ([Link](#))

May 2023 – June 2023

#### Data Scientist Intern

- Devised solar power prediction model (**95% accuracy**) leveraging **50K+ weather data entries**, boosting Amara Raja's grid efficiency by **20%**.
- Fine-tuned predictive model achieving **RMSE 2.5, MAE 1.8, and MAPE 3.5%** via **10-fold cross-validation**.
- Streamlined supply-demand balancing via real-time analytics, slashing blackout by **18%** and boosting reliability by **20%**.

## PUBLICATIONS

- prediction of children Undergoing Hematopoietic Stem Cell Transplantation using Deep Learning Algorithms, Under review by Taylor & Francis.
- Sentiment Analysis of Covid-19 Twitter Data using Deep Learning Algorithm, ICMLDE 2023 , ELSEVIER ([Link](#)).
- Single Image Haze Removal with Radiance Reflectance Minimization Using Illuminated Optimization and K-Means Clustering, IJRASET 2023 ([Link](#)).

## PROJECTS

### Survival Prediction of Children Undergoing Hematopoietic Cell Transplantation. ([Github](#))

- Developed a **95.7%** accurate model for children's survival after Bone Marrow Transplant using ANN, RNN, and GRNN.
- Applied **SMOTE** for data balancing and **Pearson Correlation** for feature selection to enhance model performance.

### Skin Cancer Detection Using Hybrid Deep Learning Model. ([Github](#))

- Optimized hybrid models (**DenseNet121, VGG16, Xception**) to achieve **93%** accuracy on the ISIC2020 dataset.
- Reduced misdiagnosis **20%** and boosted early detection **5%** via predictive analytics (10K+ clinical datasets).

### F1 Racing Records Data Engineering and Analysis ([Github](#))

- Built a data pipeline with Azure tools (**Data Lake Gen 2, Databricks, Synapse Analytics**) to process F1 data.
- Delivered actionable insights and scalable analytics via a custom-built dashboard for enhanced decision-making.

## LEADERSHIP

### The Artificial Intelligence and Machine Learning Club(TAM)

2023 - 2024

#### Secretary

Vellore Institute of Technology

- Hosted hackathons and workshops to provide hands-on **AI/ML** learning, empowering over **1,000** community members.
- Partnered with companies like **Clarifai AI** and **Jio** to enhance networking opportunities and deliver real-world insights.