

ATCHUTHA RAO T A

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Atchutha Rao T A

Southlaw33

EDUCATION

Siddaganga Institute Of Technology <i>BE - Artificial Intelligence and Data Science CGPA - 8.49</i>	2021 - Present <i>Tumkur, Karnataka</i>
Vidya Vardhaka Sangha Sardar Patel PU College <i>Department of Pre-University Education Percentage - 92.83%</i>	2021 <i>Bangalore, Karnataka</i>
Vidya Vardhaka Sangha Sardar Patel High School <i>KSEEB Percentage - 94.72%</i>	2019 <i>Bangalore, Karnataka</i>

PROJECTS

Memory management dashboard in operating systems | Python, os, psutil

- Developed a Python-based Memory Management Dashboard to monitor and manage system memory and running applications in real-time. Implemented features to track application memory usage, set user-defined thresholds, and automate the termination of high memory-consuming processes.

Animal / Object classification on cifar-10 dataset (ML) | Jupyter notebook, Torch

- Implemented a deep learning pipeline using PyTorch for image classification on the CIFAR-10 dataset. Designed a CNN architecture with multiple convolutional layers and utilized extensive data pre-processing and hyperparameter tuning to optimize performance. Demonstrated the model's inference capability by accurately predicting classes for external images.

Energy Consumption Prediction | Jupyter notebook, Tensorflow, LSTM

- Developed and implemented RNN and LSTM models using Python and TensorFlow to predict hourly energy consumption. Managed data preprocessing, including normalization, and split data into training and testing sets. Evaluated models with R^2 score, MAE, MSE, and RMSE, along with visualization of prediction effectiveness. Forecasted future energy consumption and compared actual versus predicted values for model validation.

HackerNews Backend Clone | Node.js, Hono, PostgreSQL, Typescript

- Developed a full-stack Hacker News clone using Node.js, Hono, and PostgreSQL to handle real-time news posting, liking and commenting features. Implemented RESTful APIs with user authentication, upvoting, and robust backend architecture for scalable performance.

TECHNICAL SKILLS

Languages: Python, c++

Developer Tools: VS Code, Jupyter notebook

Technologies/Frameworks: Git, Database Management Systems, Operating Systems, Data Science.

EXTRACURRICULAR

IEEE SIT SB <i>Event Management Lead</i>	2023 - present <i>Tumkur</i>
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- * Photographia 2k24 Served as a team lead for Photographia, a sub-event of the main event IdEEEas.

CERTIFICATIONS

- Geeks For Geeks - Advanced DSA Live Training Program
- MATLAB Onramp
- MATLAB Fundamentals