

SRI CHARAN THOUTAM

Undergraduate Student

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EXPERIENCE

Machine Learning Intern

Mentorress

📅 Nov 2023 – Ongoing

- Researched and wrote an article on Artificial Neural Networks, exploring their architectures, types, applications, and potential for machine learning [Link to article].
- Analyzed the Cricket World Cup 2023 data. Performed several tasks such as Team and Player Performance Analysis, Opposition and Ground Analysis, and Temporal Analysis.
- Developed a salary prediction model for data professions. Performed several tasks such as EDA, Feature Engineering, Model Development, Model Evaluation, and Model Deployment using Flask.

EDUCATION

B.Tech in Computer Science and Engineering (AI & ML)

Ganapathy Engineering College

📅 09/2021 – 08/2024 📍 CGPA: 7.1/10

Diploma in Electronics and Communication Engineering

VMR Polytechnic

📅 05/2018 – 07/2021 📍 CGPA: 7.5/10

Board of Secondary Education SSC - Class X

ASSISI ENGLISH MEDIUM SCHOOL

📅 04/2018 📍 CGPA: 8.3/10

PROJECTS

Reinforcement Learning for playing Mario game

Skills: Python 3, OpenAI Gym, PyTorch, Stable-Baselines3

- Several papers have shown that it is possible to create self learning AI agent that take actions and pursue strategies in complex environments without any prior knowledge.
- The success of this project by clearing 6 levels highlights the potential of Reinforcement Learning, particularly PPO algorithm, to tackle complex decision-making tasks in various domains.
- As RL algorithms continue to evolve, their impact is expected to extend even further, the way we interact with machines and enabling them to operate autonomously in increasingly complex environments.
- 🔄 CodeWithCharan/AI-Mario

Neural Network SMS Text Classifier

Skills: Python 3, TensorFlow, Keras, Neural Networks, NLP

- Developed a text classification model for SMS messages, distinguishing between "ham" and "spam."
- Implemented several tasks such as data preprocessing, text cleaning and stopwords removal. Utilized an LSTM neural network architecture.
- Achieved an accuracy of 90% to detect spam messages.
- 🔄 CodeWithCharan/Neural_Network_SMS_Text_Classifier

TECHNICAL SKILLS

- **Programming Languages:**
 - Python (Proficient)
 - Java
 - C
- **Data Science & Machine Learning:**
 - **Libraries & Frameworks:** TensorFlow, PyTorch, Keras, Scikit-learn, Pandas, NumPy, and Matplotlib
 - **Natural Language Processing (NLP):** NLTK, spaCy
 - **Neural Networks:** Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN)
 - **Computer Vision:** OpenCV
 - **Reinforcement Learning:** OpenAI Gym, Deep Q-Network (DQN), Proximal Policy Optimization (PPO)
- **Web Development:**
 - HTML, CSS, JavaScript
 - Flask
 - Bootstrap
- **Databases:**
 - MongoDB
 - SQL
- **Version Control:** Git
- **IDE:** Visual Studio Code
- **Jupyter Notebook**

ACHIEVEMENTS

- In Python, I have earned 5 stars on HackerRank
- In the Kaggle competition, I achieved rank 1896 out of 68761 participants

CODING PROFILE

HackerRank - hackerrank.com/CodeWithCharan

Kaggle - kaggle.com/CodeWithCharan

CERTIFICATES

Machine Learning with Python: [freecodecamp](https://www.freecodecamp.org/)

Intro to Machine Learning: [kaggle](https://www.kaggle.com/)

Intermediate Machine Learning: [kaggle](https://www.kaggle.com/)

LINKS

LinkedIn - [linkedin.com/in/CodeWithCharan](https://www.linkedin.com/in/CodeWithCharan)

GitHub - github.com/CodeWithCharan

Portfolio - codewithcharan.github.io/My-Portfolio