BHANU PRATAP SINGH

📞 +49 15510446502 🍳 bhanurana430@gmail.com 🕜 Bhanu Pratap Singh | LinkedIn

⊘ bhanurana430 | GitHub
○ Bahnhofstrasse 21, Deggendorf, Germany



PROJECTS

Al for Trading - Ongoing

- · Objective: Training deep reinforcement learning (DRL) agents to make intelligent decisions in real-time trading environments and analysing Financial Data.
- · Created a custom Environment for DRL agent training
- Implemented DRL models using PyTorch as well as from stable-baselines API
- · Analyzed and backtested trading strategies using VectorBT library
- Performed time-series analysis on stock and cryptocurrency data
- · Explored predictive modeling techniques such as ML models, LSTM, etc for sequential data
- · Collected, preprocessed, and visualized data using Yahoo Finance, NumPy, Pandas, and Matplotlib

Table Tennis Analyzer - Computer Vision

- Created a program to interpret and analyze Table Tennis games
- Used libraries like OpenCV and NumPy
- · Features Ball detection and path tracing, Net detection, Table detection, Bounce
- · Implemented an automated score system, covering major cases according to the game rules

Titanic Survival Predictor - Web Development and Machine Learning

- Objective: Develop a Titanic Survivor Prediction web application
- Used Html, CSS, JavaScript (Vuejs) for frontend
- Implemented machine learning models in the backend to give predictions
- FastAPI for sending requests to the backend and getting the result
- · Followed Scrum methodology across three sprints, managing tasks and resources in Jira

Crop Recommendation - Machine Learning

- · Objective: Understand the working of various ML models and concluding why one would be better than the other
- · Data preprocessing, EDA, feature engineering and feature selection on a crop dataset using numpy, pandas and scikit-learn
- Using 4 to 5 different classification machine learning algorithms and evaluating each one
- · Data Visualization using seaborn and matplotlib

Image Classification - Deep Learning

- Objective: Understand the basics of PyTorch and Tensorflow-Keras API
- · Hand written digit classification using linear layer Neural Network in PyTorch
- · Clothes classification (fashionminst) using CNN in Tensorflow-Keras

EDUCATION

B.Sc. ARTIFICIAL INTELLIGENCE

Technische Hochschule Deggendorf

iii 10/2022 - Present ♀ Deggendorf, Germany

• Field of study - Artificial Intelligence | Grade 2.2 (Current)

SUMMARY

I am a motivated Artificial Intelligence undergraduate student. My experience includes developing predictive models with ML/DL, data analysis, web development etc. With a strong foundation in Python, data science, and statistical analysis, I am eager to leverage my technical skills and creativity to contribute to impactful projects. My current interests revolve around time series analysis, financial mathematics and Algo-Trading. I am also fluent in German and English, which allows me to collaborate effectively in diverse, global environments

LANGUAGES

German - B1 Intermediate	••••
English - C1 Native	••••

CKILLC

Data Str	uctures and	Algori	ithms	Python
SQL J	avascript-Ba	asic	HTML	CSS
Numpy	Pandas	Ma	tplotlib	
Scikit-lea	irn PyTo	rch	Tensorflow	
Keras	Stablebase	lines	OpenAl GYM	
FastAPI	VectorBT	· Y	ahooFina	nce
Linux	Git Gitl	nub	Microsoft Office	
Machine	Learning	Dee	p Learninչ	g
Reinforc	ement Learr	ning	Statisti	cs
Time Ser	ies Analysis	D.	ata Analys	sis
PowerBI	DBMS	Res	tAPI	
Postgres	sSOI			

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