Amit Ranjan

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EDUCATION

Rajiv Gandhi Institute of Petroleum Technology   Jais, UP
(An Institute of National Importance along the lines of IITs)
Bachelor of Technology in Computer Science and Engineering; CPI: 7.5   Dec 2020 - Jun 2024

H.N Inter School | GRSS Vidya Mandir   Bhagalpur,Bihar
Intermediate: 85% | Matriculation: 10 CGPA   Jun 2017 - May 2019

EXPERIENCE

iNeuron.ai
Data Science intern |Tech stack: Database, Cloud for hosting, API, ops pipeline   Nov 2022 - Present
- Building Online Assignment Plagiarism Checker using NLP

PROJECTS

- **Dog Breed Classification** | *TechStack: Python,shell,NumPy,Pandas,CNN,Pytorch* — **GitHub**
  - Dog breed classification using convolutional neural network (often abbreviated as CNN) using three different architectures **AlexNet**, **VGG**, and **ResNet**.
  - Correctly classified Dog is **100** percent and Breed is **93.33333333333333**.
- **Command line App to predict flower's species** | *Techstack: Python, Html,CNN,NumPy,Pytorch* — **GitHub**
  - Developed an AI app to predict flower's species from scratch using **VGG16** and **VGG19**.
  - Correctly classified the species is approx **90.8** percent
  - Used Transfer learning technique in this project
- **Wafer Fault Detection** | *Techstack:Python,Flask,Scikit-Learn,Api,AWS Cloud,ML* — **GitHub**
  - Data Export from Db & data validation.
  - Data Preprocessing uisng knn imputer & used different ML Technique.
  - used clustering ml technique for prediction & developed complete **ops pipeline**.

HONORS & REWARDS

- **AWS AI & ML Scholar(Present)** | *AWS Deep Racer Student Finalist*
  - I have trained a machine learning model through a cloud based 3D racing simulator, fully autonomous 1/18th scale race car driven by reinforcement learning.
  - I have completed the race track under **2 min 20 sec** Using an optimized model and the OpenVINO toolkit inference engine, we can achieve a low inference latency on the Intel Atom processor in the AWS DeepRacer device..
  - I have achieved more than **95** percent marks in the test.
- **Bertelsmann SE & Co. KGaA Data Science Scholar(Present)** | *Reward: Data Science Nanodegree*
- **International minerva math olympiad (High School)** | *Silver Medal Winner and cash prize.*

SKILLS

- **Languages**: C, Python,Matlab, SQL, HTML, CSS, JavaScript
- **Tools/Frameworks**: TensorFlow PyTorch, Scikit-learn, Keras, Pandas, NumPy, Matplotlib, Seaborn, Plotly, SciPy, Statsmodels, NLTK,Git, GitHub,Mongodb,Cassandra
- **Platforms**: Linux, Windows, Cloud
- **Courses**: AI,Data Mining,Linear Optimization,DSA,Databases, Operating Systems, Networking, Computer Architecture, Web Technology

CERTIFICATES & DEGREE

- AWS Machine Learning Foundations Nanodegree(Udacity) Link.
- AI Programming with Python Nanodegree(Udacity) Link.
- Coursera programming for Everybody Link.
- Data Science Master at iNeuron.ai(on going approx 90 percent completed)

ACHIEVEMENTS

- Published an **opensource Python Projects** related to calculating and visualizing Gaussian, General and Binomial distribution. Pypi Profile.
- Qualified for the **IIT-JEE Advanced** 2020, ranking in the top **1.65**% & studied 1 month at IIT Varanasi in Ceramic Engineering and then drop-out due to interest in Computer Science(email:amit.ranjan.cer20@itbhu.ac.in).
- International minerva math olympiad (High School) Silver Medal Winner and cash prize.