Aryajeet Jha

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EDUCATION

Vellore Institute of Technology, Vellore	9.31 CGPA
BTech in Computer Science and Engineering with specialization in Internet of Things	*Sept 2022 – Present*
Seth M R Jaipuria, Lucknow	96.75 %
Higher Secondary Education, PCM, ISC Grade XII	*2021 – 2022*
Maharshi Patanjali Vidya Mandir, Prayagraj	94.4 %
High School Diploma, CBSE Grade X	*2019 – 2020*

PROJECTS

Diabetes Predictor Model | *Python, scikit-learn, NumPy, pandas*
- Developed a diabetes prediction model using Python, leveraging `pandas`, `NumPy`, and `scikit-learn` for data manipulation and machine learning
- Preprocessed medical data by normalizing features with `StandardScaler` and splitting datasets using `train_test_split`, achieving a balanced dataset of 769 records.
- Trained a Support Vector Machine (SVM) classifier with a linear kernel, achieving an accuracy of 78.6% on the training data and 77.2% on the test data.
- Created a predictive system to assess diabetes likelihood based on patient input, incorporating data standardization and reshaping techniques.
- [Github Link](#)

Chat Application | *MERN Stack, Socket.io*
- Developed a real-time chat application using the MERN (`MongoDB`, `Express.js`, `React`, `Node.js`) stack.
- Implemented `Socket.io` for real-time, bidirectional communication between the server and clients.
- Integrated an avatar selection feature using the Multiavatar API for a personalized user experience.
- Designed and developed a user-friendly interface with `React`, ensuring a seamless user experience.
- Managed user data and chat histories in `MongoDB`, ensuring efficient data storage and retrieval.
- [Github Link](#)

Portfolio Webpage | *HTML, CSS, JavaScript*
- Developed a portfolio webpage using `HTML`, `CSS`, `JavaScript`.
- Link: [Portfolio](#)

CERTIFICATES

Supervised Machine Learning: Regression and Classification | *Coursera, Stanford University, DeepLearning.ai*
- Mastered concepts in Linear Regression, Logistic Regression, and more.
- Gained hands-on experience with `Python` along with `scikit-learn` to implement machine learning algorithms.
- Certificate: [Coursera Certificate](#)

Advanced Learning Algorithms | *Coursera, Stanford University, DeepLearning.ai*
- Studied neural networks, decision trees, ensemble methods, and more.
- Implemented advanced algorithms using `Python` and `Tensorflow`
- Certificate: [Coursera Certificate](#)

Unsupervised Learning, Recommenders, Reinforcement Learning | *Coursera, Stanford University, DeepLearning.ai*
- Explored clustering, anomaly detection, reinforcement learning, recommender systems, and more.
- Developed practical skills in `Python` and `Tensorflow` for unsupervised learning and reinforcement learning algorithms.
- Certificate: [Coursera Certificate](#)

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, R
Frameworks: MongoDB, Express, React, Node.js
Developer Tools: Github, VS Code, PyCharm, Eclipse
Libraries: pandas, NumPy, Matplotlib, scikit-learn, Tensorflow, GSAP, Socket.io