

Anugraha Nayak

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Education

B.Tech CSE (AI ML) <i>The Neotia University – Sarisha, West Bengal</i>	CGPA: 9.35/10.0 – Link Sept 2021 – Present
Indian School Certificate (ISC) <i>The Assembly of God Church School – Kolkata, West Bengal</i>	Class 12th - 93% – Link Apr 2019 - May 2021
Indian Certificate of Secondary Education (ICSE) <i>The Assembly of God Church School – Kolkata, West Bengal</i>	Class 10th - 91% – Link Apr 2018 - May 2019

Skills

Data Analysis and Visualization: SQL, Python (Pandas, NumPy, Seaborn, Matplotlib)	Machine Learning & Statistics: Scikit-Learn, TensorFlow, PyTorch, Keras, Linear Regression, Logistic Regression, Decision Trees, Random Forest, XG Boost, Neural Networks, Deep Learning, Natural Language Processing, Exploratory Data Analysis	Programming Languages: C, Java, Python, Javascript, HTML, SQL
Additional Technical Skills: React (Native), FastAPI, AWS, Docker, Github Codespace, Expo		

Experience

AI & Machine Learning Engineer – Xeta Labs, Guwahati, Assam, India • Engineered an advanced conversational AI chatbot capable of ingesting and processing news from 5 online sources, enhancing user engagement by enabling real-time queries on current events and news topics • Engineered a dynamic quiz application using Expo and React Native, featuring a level-based progression system and incorporating both text and image-based questions to enhance user engagement and learning outcomes <i>Key Technologies:</i> Python, Selenium, BeautifulSoup, FastAPI, React Native, Pandas, NumPy, Expo, Github Codespace	June 2024 - Aug 2024 Link
Artificial Intelligence with Machine Learning – AILABS, Kolkata, West Bengal • Spearheaded the development of an advanced movie recommendation system utilizing machine learning algorithms and content-based filtering, leveraging TF-IDF vectorization for enhanced personalization and accuracy. <i>Key Technologies</i> Python, Pandas, NumPy, Scikit-learn, TfidfVectorizer	June 2023 - July 2023 Link
Amazon Web Services – BrainOvision Solutions Pvt. Ltd. • Successfully completed a three-month intensive internship program specializing in Amazon Web Services (AWS), actively contributing to multiple projects. Demonstrated strong initiative, technical proficiency, and commitment to achieving project objectives in a fast-paced cloud computing environment. <i>Key Technologies</i> AWS CLI, EC2 instance, S3 bucket, Elastic IP, VPC	Jan 2024 - Apr 2024 Link

Projects

Firearms and Knives Threat Detection using YOLOv8 • Developed a threat detection system using YOLOv8, a state-of-the-art object detection algorithm, to identify firearms and knives in images and videos in real-time. Leveraged deep learning techniques and computer vision to train the model on a custom dataset of firearm and knife images, achieving high accuracy of 84% in detection. • Tools Used: Roboflow, YOLO, PyTorch	Link
AI-Driven Formula 1 Race Outcome Prediction Model • Developed a machine learning model to predict Formula 1 race results (podium finishes, points, DNFs) by analyzing historical race data, driver/constructor performance, weather, and circuit characteristics. Leveraged Python for feature engineering (e.g., <i>Home Advantage Index</i> , <i>DNF Risk Scores</i>), and model training (Random Forest, XGBoost). Achieved 95% accuracy after optimizing hyperparameters and validating insights like "home races boost team performance by 18%." Results were applied to fantasy leagues and strategic team decisions, demonstrating real-world impact. • Tools Used: Python, Pandas, Scikit-learn, XGBoost, ML Algorithms, and GridSearchCV. .	Link