Pawan Kumar Nimmakayala
Github :PAWAN1118
nimmakayalapawankumar7@gmail.com
+91-9652981118
linkedin.com/in/g-b-Pawan Kumar Nimmakayala

EDUCATION

Degree	Specialization	Institute	Year	CPI
B.Tech	*Computer Science in AI&ML*	Anits	2023-Present	9.30
Inter BIEAP	*Physics, Chemistry, & Mathematics*	Narayana College	2019	8.60
SSC	-	Narayana College	2017	9.80

WORK EXPERIENCE

- **Computer Networks Intern** *[NIT Rourkela]* *May-Jul 2025*
  - **Coordinated in a team of four** to design and implement **Network AI**,an intelligent SDN-based architecture that applies**self-learning control strategies** for autonomous network management
  - **Developed and integrated machine learning models** into the SDN controller to dynamically optimize **traffic routing, load balancing, and resource allocation** Simulated large-scale network environments using **Mininet and SDN controllers (e.g., Ryu/ONOS)** to evaluate system performance under varying traffic conditions
- **Machine Learning Intern** *[Embrizon Tech collaborated with Wipro]* *Jan-Apr 2025*
  - Completed a **Machine Learning Internship** at **Embrizon Tech** in collaboration with **Wipro**, gaining hands-on experience in developing and deploying AI solutions
  - Designed and implemented a **predictive analytics model** using **Python, Scikit-learn, and Pandas** to forecast customer churn with an accuracy of **92%**, enabling proactive retention strategies

PROJECTS

- **NetworkAI: AI-Driven Traffic Optimization in SDN** *May-Jul 2025*
  - Documented a **comprehensive study on Software Defined Networks (SDN)** by simulating large-scale topologies and drawing **insights on traffic behavior and resource utilization**
  - Built an **AI-driven self-learning control framework (NetworkAI)** that dynamically optimized **routing, load balancing, and resource allocation**, achieving improved **throughput and latency reduction** in simulations
- **Predictive Maintenance using Machine Learning** *Jan-Apr 2025*
  - Documented a **comprehensive analysis of industrial sensor datasets** by visualizing time-series trends and drawing **qualitative insights on equipment performance and failure patterns**
  - Built a **Predictive Maintenance Machine Learning model** using **Python and TensorFlow** to forecast equipment failures with **93% accuracy**, enabling proactive maintenance and minimizing downtime
- **Social Media Sentiment Analysis Using AWS Kinesis** *Nov 2024*
  - **D**esigned and implemented a real-time sentiment analysis pipeline using AWS Kinesis Data Streams for live social media data ingestion. Processed streaming data using AWS Lambda and performed sentiment analysis using Python NLP techniques. Stored analyzed sentiment data in DynamoDB and Amazon S3 for fast access and historical analysis. Built visual insights using AWS QuickSight to track sentiment trends and public opinion.

TECHINCAL ACHEIVEMENTS

- **Machine learning Hackathon** *Nov 2024*
  - **Participated in a Machine Learning Hackathon** and secured **Top 2 position** by developing a **Drug Case Predictor and Analyzer**, demonstrating strong skills in predictive modeling and data analysis
  - **Led a team of four** to design and implement a **Drug Case Predictor and Analyzer**, managing **data preprocessing, feature engineering, and model development**, ensuring **accurate predictions and seamless project delivery**

TECHNICAL SKILLS

- **Languages:** Python, C, Java, Html, CSS, Javascript, MySQL
- **FrameWorks:** Reactjs, ExpressJs, SpringBoot(Basics), TensorFlow
- **Tools:** Jupiter Notebook, LaTeX, VS Code, GitHub, git, AWS, jenkins, Docker,Postman, PowerBi, Excel,Google Colab
- **Moocs:**Financial Markets,Financial Analyst Course,The Complete Investment Banking Course