DEVAKINANDAN PENTYALA

(203) 868-4654 | devakinandanpentyala2002@gmail.com | LinkedIn: linkedin.com/in/devakinandan-p | GitHub: github.com/Sandy-Nandu

PROFESSIONAL SUMMARY

Master's student in Data Science with a strong foundation in Machine Learning, Data Analytics, and AI-driven solutions. Proficient in Python, SQL, R and AWS, with hands-on experience in predictive modeling, big data analytics, and cloud computing. Passionate about leveraging data-driven insights to solve real-world challenges in finance, healthcare, and technology sectors. Experienced in working with large datasets, statistical analysis, and data visualization. Currently seeking opportunities to apply academic research and technical expertise to drive innovation in a dynamic, data-driven environment.

CORE COMPETENCIES:

Data Science & Machine Learning:	▪ Statistical Analysis ▪ Predictive Modeling ▪ Big Data Analytics ▪ NLP ▪Deep Learning
Programming & Tools:	▪ Python ▪ SQL ▪ C ▪ R ▪ AWS ▪ Power BI ▪ Tableau ▪ TensorFlow
Research & Analysis:	▪Architectures ▪ Data Science Pipelines ▪ Exploratory Data Analysis ▪ A/B Testing
Data &AI Product Management:	▪ Business Planning ▪ Product Lifecycle Management ▪ Cross-functional Collaboration
Emerging Skills & Technologies	▪ Cloud Computing (Azure, Google Cloud) ▪ Generative AI

EDUCATION

Tagliatela College of Engineering, University of New Haven ▪ West Haven, CT
Master of Science in Data Science ▪ Expected : 2026
- ▪ **Coursework:**
  - ▪ Machine Learning ▪ Big Data ▪ Data Visualization ▪ Deep Learning ▪ Natural Language Processing (NLP) ▪ Leadership in Data & AI Products ▪ Data Ethics ▪ etc.
- ▪ **Tools:**
  - ▪ Python ▪ R ▪ SQL ▪ TensorFlow ▪ Hadoop ▪ Tableau ▪ AWS Athena ▪ Power BI

Bharath Institute of Higher Education and Research , Bharath University ▪ Chennai, Tamil Nadu, India
Bachelor of Technology in Computer Science Engineering ▪ Graduated : 2023

Sri Chaitanya Junior College ▪ Hyderabad, Telangana, India
Intermediate (MPC - Mathematics, Physics, Chemistry) ▪ Completed : 2019

Bhashyam Public School ▪ Hyderabad, Telangana, India
Secondary School Certificate (SSC) ▪ Completed : 2017

DATA & AI PROJECTS AND PORTOFOLIO

University of New Haven ▪ West Haven, CT   February 2025–Present

Master of Science in Data Science/Tagliatela College of Engineering (Ongoing)
- ▪ **Project 1 AI4I 2020 Predictive Maintenance Dataset Analysis**
  - Developed predictive models to anticipate machine failures using AI4I 2020 dataset.
  - Conducted Exploratory Data Analysis (EDA) to identify key failure factors such as temperature, torque, and tool wear.
  - Implemented Logistic Regression & Random Forest models, achieving 87% accuracy in failure prediction.
  - Proposed an automated predictive maintenance system to improve machine reliability and prevent unexpected failures.
  - Tools Used: Python, Pandas, Scikit-Learn, Matplotlib, Seaborn.
- ▪ **Project 2 Appliances Energy Prediction Dataset Analysis**
  - Analyzed energy consumption patterns in households using a multivariate time-series dataset.
  - Built regression models to predict appliance energy usage based on environmental conditions.
  - Conducted feature engineering, normalizing temperature, humidity, and wind speed data to improve model performance.

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- Applied Linear Regression, Random Forest, and Neural Networks, achieving high accuracy in energy consumption prediction. Evaluated models using Mean Squared Error (MSE) and R^2 metrics.
- Tools Used: Python, NumPy, Pandas, Scikit-Learn, TensorFlow, Matplotlib.

Event Ticket Management System with Blockchain Implementation ▪ Chennai, Tamil Nadu,India
Blockchain Developer, Bharath Institute of Higher Education and Research | B.Tech in CSE ▪ April 2023

- Developed a blockchain-based ticketing system to prevent ticket scalping and fraud.
- Implemented smart contracts for automated ticket purchase agreements, eliminating intermediaries and reducing transaction costs.
- Designed a unique digital token system, ensuring each ticket was sold only once and remained verifiable on the blockchain.
- Enhanced accountability by providing auditable data on ticket sales and distribution.
- Tools Used: Solidity, Ethereum, Hyperledger, Python.

PROFESSIONAL Portfolio ▪ New Haven, United States

- **Professional Portfolio** | New Haven, United States
  Data & AI Projects |
  - Access my professional portfolio: **https://sandy-nandu.github.io/**

LinkedIn Link : **https://www.linkedin.com/in/devakinandan-p/**

Website Link: **https://sandy-nandu.github.io/**

Github Link : **https://github.com/Sandy-Nandu/**

PROFESSIONAL CERTIFICATIONS & MEMBERSHIPS

HTML Essential Training	*LinkedIn Learning*	January 2025
Data Science Foundations: Data Engineering	*LinkedIn Learning*	January 2025
Python: Working with REST and WEB Data	*LinkedIn Learning*	January 2025

LANGUAGES

Python	*Innomatics/IBM*	July 2024
C	*Bharath University*	June 2021