Karthik Reddy Konda

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PROFESSIONAL SUMMARY

Data Science graduate student with a strong foundation in designing and developing machine learning algorithms, analyzing large datasets, and applying feature engineering and statistical techniques. Skillful in using Python, SQL, and data science methodologies, with academic training in Machine Learning, Data Mining, Statistics, and Database Management.

WORK EXPERIENCE

CODEGNAN, Vijayawada, India. Data intern **Nov 2023 – Dec 2023**

During the internship, I gained practical experience in Web Scraping, EDA, ML modeling, Training and Testing. also completed a project on **"Predicting Travel Insurance Claims"** for risk assessment. The internship strengthened my technical knowledge and professional skills.

Admission Assistant at Wright State University (UCIE): Aug 2025 – Oct 2026

Managing and organizing student application data and helping students throughout the admissions process. Converting international academic grades and GPAs from various countries to the **U.S. grading system** using **Excel, VLOOKUP, and Pivot Tables**, ensuring accuracy and consistency in academic data analysis. Creating useful excel templates for Grade conversions.

EDUCATION

Wright State University, Dayton, OH, USA (January 2025-Present)

Master of Science in Data Science GPA: 3.25/4.0

Course Work: Statistics, Intro to Data Science, Intro to ML, ML, Database management system, Data Mining, Advance Data Mining, visualization and image processing for cybersecurity.

N.B.K.R. Institute of Science and Technology, Vidyanagar, India (August 2020 – May 2024)

Bachelor of Engineering in Computer Science GPA: 7.25/10

SKILLS

- **Statistics,** better at using **SAS, R**
- **Programming Languages:** Python (Pandas, Numpy, Matplotlib, OpenCV, Sipy, Scikit-learn, PyTorch, TensorFlow/Keras, Natural Language Toolkit), HTML, CSS, R, Streamlit.
- **Database Management**: MySQL, Snowflake, PostgreSQL.
- **Cloud Services**: AWS, Azure.
- **AI Tools**: LangChain, Boto3, Azure Open AI
- **Data Analytics:** Better at using Tableau, Orange, SPSS, Machine Learning, Advance Data Mining.

PROJECTS EXPERIENCE

Home Credit Default Risk: Built a Python pipeline to predict loan repayment difficulties using Kaggle's Home Credit dataset, which contains 307,511 labeled loan applications. Combined seven relational tables and engineered 200+ applicant-level features from prior loan applications, credit bureau histories, installment payments, and monthly credit card and point-of-sale loan balances. Used these features to capture borrowing and repayment patterns over time, then tuned a LightGBM gradient-boosted tree classifier using cross-validation. The model achieved a ROC AUC of 0.73.

Pima Indians Diabetes prediction: I worked on the Pima Indians Diabetes dataset to predict diabetes onset. I first built a Logistic Regression model as a baseline, then I trained a Random Forest model, which improved recall. Finally, I built an ensemble (Voting Classifier) combining both models, which balanced accuracy and recall better. Since recall is crucial in healthcare (missing a diabetic patient is more dangerous than a false alarm), I emphasized recall in evaluation.

RadarFormer-Mesh: Temporal 3D Human Mesh Reconstruction from mmWave Radar Using MoCap Supervision(inprogress): I reconstruct 3D human meshes using four consecutive frames from one millimeter-wave radar. My PyTorch model extracts features with a 3D CNN, passes messages across 22 skeletal joints, and tracks motion with a Mamba-style state-space model to estimate SMPL-X pose and shape. I supervise joint velocities with M4Human motion-capture data and schedule CUDA training through Slurm on Wright State University's NVIDIA L40S GPU. (kaggle)

CERTIFICATIONS

- Python Certification from Hacker Rank.
- Data science certification by Microsoft Azure.
- NPTEL certification of data analytics with python.