

Pavan Kartheek Konam

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PROFESSIONAL SUMMARY

Artificial Intelligence Master's student with hands-on experience in machine learning, deep learning, IOT and embedded systems. Proficient in Python, TensorFlow, PyTorch, and Data Science, with expertise in designing experiments, analyzing results, and delivering high-quality solutions. Adept at communication, creative problem-solving, and thriving in dynamic environments.

EDUCATION

Northwestern University, Evanston, Illinois Anticipated December 2025
Master of Science in Artificial Intelligence, CGPA: 4/4
TKR College of Engineering and Technology, Hyderabad, India 2018-2022
Bachelor of Technology in Electronics and Communication Engineering, CGPA: 8.64/10

PROJECTS

ICU Insights Dec 2024

- Built predictive models using Random Forest and Neural Networks to forecast ICU admissions, achieving 0.97 AUC-ROC score.
- Processed MIMIC-IV database(70,000+ records), expanding features from 24 to 31, and optimized preprocessing workflows.
- Relevant Skills: Machine Learning, Feature Engineering, Python, Data Analysis.

Stock Market Price Forecasting using Time Series Analysis Dec 2024

- Engineered stock price prediction models using LSTM, SARIMAX, TIDE and TSMixer models for volatile, stable, and short-term trends.
- Analyzed Nasdaq-100 index data, implemented advanced feature engineering for optimal performance.
- Relevant Skills: Time Series Analysis, Deep Learning, Python, Pandas.

Med Alert for CVS Health Care July 2024

- Designed AI models using Python and Deep Learning to generate timely medical alerts, leveraging SQL databases for scalability.
- Collaborated with cross-functional teams to align AI models with clinical needs.
- Relevant Skills: Deep Learning, SQL, Python, Collaboration.

WORK HISTORY

Cognizant, Hyderabad, India July 2022- July2024
Programmer Analyst in AI/ML

- Generated new notebooks on advanced NLP, including Chatbot, GPT, Topic Modelling etc.
- Constructed a Speech-to-Text model using Azure services to enhance clarity during interviews, achieving over 92% accuracy.
- Authored about 50 code fixes and enhancements for inclusion in future code releases and patches.
- Provided ongoing support for user experiencing issues or requiring assistance with application functionality.

Cognizant, Hyderabad, India Feb 2022- June 2022
Intern

- Served around 50 staff members in daily tasks, reducing workload and allowing for advanced focus on higher priority.
- Developed Computer Vision projects, such as object detection and text recognition, operating on AWS with accuracy above 94%.

LEADERSHIP EXPERIENCE

Path Creators, Hyderabad, India Feb 2019- Feb 2020
Robotics and IOT Trainer

- Trained 600 students in Robotics and IOT and provided project guidance.
- Mentored around 50 new hires, resulting in stronger staff development and enhanced productivity.
- Led workshops and training sessions to enhance team collaboration and foster continuous learning.
- Created training materials to streamline the onboarding process for new trainers and improve training effectiveness.

CERTIFICATIONS

- Machine Learning (*High-level competency on Python, Deep Learning Algorithms*)– **University of Washington**
- Google IT Automation with Python (*skillset in Python automation, GIT, Troubleshooting & Debugging*)– **Google**
- Cloud Architecture with Google Cloud (*Knowledge on Cloud Computing, Google App Engine (GAE)*) – **Google Cloud**
- AWS Fundamentals (*Well-versed in Data Visualization, AWS Security, Software Architecture*)– **Amazon Web Services**

COMPUTER SKILLS

- Programming:** Python (Proficient), C/C++ (Intermediate), R(Intermediate)
- Frameworks/Tools:** TensorFlow, PyTorch, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn.
- Data Science:** Machine Learning, Deep Learning, Data Visualization, Feature Engineering.
- Embedded Development:** C/C++, Edge/Embedded ML
- Other Tools:** SQL Databases, Microsoft Office Suite, AWS, Azure.