KOLASANI GAYATRI

gayatrikolasani@gmail.com +91 6305881538 linkedin.com/in/gayatri-kolasani-gk25

CAREER OVERVIEW

Engineered a personalized career guidance system utilizing TF-IDF, KNN, and XGBoost, delivering over 500 career recommendations with an 80% user satisfaction rating based on feedback surveys. Optimized data preprocessing pipelines and deployed machine learning models on cloud infrastructure, achieving a 15% improvement in prediction accuracy and a 20% reduction in model training time.

EDUCATIONAL CURRICULUM

BTECH CSE-AI 2021 – 2025
KKR & KSR Institute of Technology and Sciences Guntur, India
CGPA 7.6

Higher Secondary Education 2019 – 2021
Loyola Public School, Guntur, India
Percentage 89%

SSC 2018 – 2019
Loyola Public School, Guntur, India
percentage 78%

PROJECTS

AI POWERED CAREER PATHWAY GUIDANCE FOR PERSONALIZATION

Tools & Technologies: Python, Scikit-learn, TF-IDF Vectorization, K-Nearest Neighbors (KNN), XGBoost, Machine Learning (ML), Artificial Intelligence (AI), Data Preprocessing

- Built an AI-driven career guidance system to provide personalized career recommendations using TF-IDF vectorization, K-Nearest Neighbors, and XGBoost.
- Streamlined user input processing through vectorization methods such as TF-IDF and Word2Vec, boosting feature extraction speed by 30% and reducing data noise.
- Implemented XGBoost model for ranking career pathways, improving prediction accuracy by 20% and streamlining career recommendations for users based on profile data.
- Conducted skill gap analysis and suggested personalized courses, tools, and certifications to improve employability.
- Incorporated user feedback loops into the recommendation pipeline using supervised learning techniques, enabling continuous model refinement and improving recommendation relevance by 20%.
- Evaluated system accuracy using Cohen's Kappa, ensuring relevance between user profiles and recommended paths.

AUTOMATED SHOPPING TROLLEY

- Developed an autonomous robot trolley using ROS in a 36-hour hackathon at our college.
- The robot facilitates goods transportation across industries like warehousing, healthcare, and retail.Enhanced situational awareness with 3D visualization & simulation.
- Integrated Python, reducing execution errors by 60%, improving deployment
- Led a team of six, optimizing project efficiency and outcomes.

PUBLICATIONS

AI-Powered Career Pathway Guidance for Personalization
Presented at the National Conference on Innovative Challenges in Deep Learning and its Applications (NCICDLA-25)

Developed an AI system that offers personalized career suggestions by analyzing user profiles and real-time job market trends, helping students make informed career decisions.

SKILLS

Programming Languages: Python,SQL
Developer Tool: Jupyter Notebook,Visual Studio Code
Concepts: Machine Learning,OOPs,

CERTIFICATIONS

Great Learning - Python Programming

CO-CURRICULAR ACTIVITIES

- Participated in a 36-hour national-level robotics hackathon, where I co-developed an autonomous shopping trolley using ROS and Python, achieving 60% error reduction through system optimization and real-time simulation.
- Presented an AI-driven Career Guidance System at NCICDLA-25, showcasing a machine learning model trained on real-world datasets with 80% user satisfaction.

EXTRA-CURRICULAR ACTIVITIES

KITS YUVA: Technical Organizer