

# Kush Rank

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*Data science and full-stack developer with hands-on experience in machine learning, analytics, and building real, production-ready systems.*

## EDUCATION

<b>New Jersey Institute of Technology</b> <i>Bachelor's Degree in Computer Science</i>	Aug. 2024 – Present Newark, NJ
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## EXPERIENCE

<b>HackFest 2025 – Smart Campus Wallet Project (UniWallet)</b> <i>ML/Full Stack Engineer – Team Tech-Knights – GitHub: <a href="https://github.com/UniWallet">github.com/UniWallet</a></i>	Nov. 2025 Rutgers University–Newark
– Built <b>UniWallet</b> , a full-stack smart campus wallet with AI insights; selected in the Top 7 and received special judge recognition for production-level implementation.	
<b>NJIT GirlHacks Hackathon</b> <i>ML Engineer – Team "SkillIssue" – GitHub: <a href="https://github.com/SkillIssue">github.com/SkillIssue</a></i>	Sep. 2024 Newark, NJ
– Developed <b>SkillIssue</b> , an ML-powered resume analysis platform providing skill-gap detection, ATS scoring, and job recommendations.	
– Implemented NLP-based feature extraction pipelines and ranking algorithms using Flask and MongoDB.	

## PROJECTS

<b>Jarvis – Personal AI Assistant</b> <i>Python</i>	Feb. 2025 GitHub: <a href="https://github.com/KushDev19/jarvis">KushDev19/jarvis</a>
– Built a modular Python assistant with speech recognition, TTS, and system automation commands.	
<b>Sales EDA &amp; Modeling</b> <i>Python, Pandas, scikit-learn, XGBoost</i>	Mar. 2025 GitHub: <a href="https://github.com/KushDev19/Sales-EDA-and-Prediction">Sales-EDA-and-Prediction</a>
– Analyzed a 780k-row sales dataset; engineered features and trained predictive models using XGBoost.	
<b>Flight Price EDA</b> <i>Python, Pandas, scikit-learn</i>	Apr. 2025 GitHub: <a href="https://github.com/KushDev19/Flight-EDA-and-Price-Prediction">Flight-EDA-and-Price-Prediction</a>
– Processed and cleaned a 13k-record flight-fare dataset; engineered travel features for price prediction analysis.	
<b>End-to-End ML Pipeline – Student Performance Predictor</b> <i>Flask, scikit-learn, XGBoost, CatBoost, Render</i>	Jul. 2025 Live: <a href="https://ml-project-nu2y.onrender.com">ml-project-nu2y.onrender.com</a>
– Built production-grade ML pipeline comparing 8 algorithms; achieved $R^2=0.88$ with automated model selection.	
– Implemented full preprocessing workflow (scaling, encoding, imputation) and deployed via Flask on Render with CI/CD.	

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, SQL/MySQL

**ML/DS:** Pandas, NumPy, scikit-learn, XGBoost, CatBoost, EDA, feature engineering

**Web/Backend:** React, Next.js, Flask, .NET (C#), REST APIs

**Tools:** Git, Docker, Conda, GitHub Actions, Render, n8n (automation)

**Soft Skills:** Teamwork, Leadership, Communication