

# Shreyas Neelaraddi

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## PROFESSIONAL SUMMARY

Computer Science Engineering graduate with hands-on experience in software testing, system automation, and data analysis. Proven track record of developing end-to-end automated solutions and interactive dashboards that drive 30% improvement in business decision-making efficiency. Proficient in Python, SQL, API testing, and cloud deployment with experience in real-time monitoring, predictive analytics, and system optimization. Demonstrated expertise in building scalable applications, conducting performance testing, and implementing quality assurance processes. Strong background in machine learning pipeline development, database optimization, and cross-platform system integration. Seeking entry-level positions in Software Testing, System Engineering, or Data Analysis to leverage programming expertise and analytical skills in delivering robust, high-performance technical solutions.

## SKILLS

- **Programming Languages:** Python (Pandas, NumPy, Scikitlearn), SQL (MySQL, SQLite), JavaScript
- **Testing & Quality Assurance:** API Testing, Performance Testing, Test Automation, Quality Assurance, System Validation
- **System Engineering:** Linux, Cloud Deployment, Database Optimization, System Integration, Containerization
- **Data Analysis & ML:** Statistical Analysis, Predictive Modeling, Classification, Regression, Clustering, XGBoost, Random Forest
- **Data Visualization:** Power BI, Tableau, Matplotlib, Seaborn, Interactive Dashboards, Realtime Monitoring
- **Development & APIs:** Git, Flask, REST APIs, Streamlit, OpenAI API, HuggingFace API, Multithreading, Socket Programming

## EDUCATION

Degree	Institution	Location	Duration	Performance
Bachelor of Engineering – Computer Science & Engineering	Sri Sairam College of Engineering	Bangalore	2021 – 2025	CGPA: 8.4 / 10
PreUniversity (PCMB – Science)	Vijaya BIFR PU College	Bangalore	2020 – 2021	71%
SSLC (10th Grade)	JSS Public School	Dharwad	2018 – 2019	64.5%

## EXPERIENCE

### AI/ML Intern | VTU WIINNR (IT Ignition Program) | Oct 2024 – Feb 2025

- Developed and tested endtoend ML pipelines processing 10K+ data points with 85%+ model accuracy
- Deployed 5+ interactive dashboards with realtime monitoring and automated data refresh pipelines
- Built Flaskbased web applications with comprehensive API testing and integration serving 100+ daily requests
- Optimized system performance through database query optimization, reducing processing time by 25%
- Gained expertise in Linux environments, containerization, and productionready ML deployment

### Python Developer Intern | VaultofCodes | Oct 2023 – Nov 2023

- Engineered and tested speechcontrolled application using Tkinter & SpeechRecognition with 95% accuracy
- Developed realtime multithreaded chat system using socket programming, supporting 50+ concurrent users
- Performed system optimization through efficient threading and memory management techniques
- Conducted performance testing and debugging to ensure application reliability and stability

## PROJECTS

### 1) Sales Analytics Dashboard | Python, SQL, Power BI

- Integrated and validated customer, order & product datasets (25K+ records) into unified analytical framework
- Analyzed critical KPIs including revenue growth (15% YoY increase), customer retention rate, and Average Order Value
- Delivered dynamic dashboard with realtime interactive filters, boosting stakeholder decisionmaking efficiency by 30%
- Implemented automated data refresh pipelines ensuring 99.9% data accuracy and system reliability

### 2) Healthcare Risk Prediction System | Python, scikitlearn, Streamlit

- Developed and tested ensemble classification models achieving 92% accuracy for heart disease risk prediction
- Processed and validated 5K+ patient records with comprehensive feature engineering and data preprocessing
- Deployed web application with thorough testing and performance validation on Streamlit platform
- Conducted model validation using crossvalidation and ROCAUC analysis for system reliability

### 3) Customer Churn Analysis & Prediction | Python, pandas, Tableau, SQL

- Analyzed 15K+ customer records to identify 8 key churn drivers with statistical significance testing
- Built and validated predictive models (XGBoost, Random Forest) achieving 88% precision in flagging atrisk customers
- Created interactive monitoring dashboard with realtime churn tracking and customer segmentation
- Delivered system recommendations reducing potential churn by 20% through automated retention strategies

## CERTIFICATES

- **AI/ML Internship Certificate** – VTU WIINNR (2025)
- **Python Developer Internship** – VaultofCodes (2023)
- **Data Science Bootcamp** – DataCamp (2025)
- **PrepInsta Prime Certification** – 80+ Hours in Python, DSA, Frontend, Data Science & Analytics