

RENUKA VARANKAR

Pune, Maharashtra | +91 8421368749 | renuavarankar84@gmail.com | [linkedin](#) | [Github](#)

CAREER SUMMARY

- Achieved successful completion of three significant academic group projects related to AI implementation strategies over two semesters, resulting in increased collaboration among peers and an enriched educational experience that fostered teamwork skills.
- Secured 30% increase in model accuracy for a university-sponsored AI project by refining algorithms with advanced statistical methods, demonstrating strong proficiency in machine learning principles applicable to industry standards.

SKILLS AND STRENGTHS

- Programming languages** : Python , C++ , Java, SQL.
- Tools and Technologies** : Pandas , NumPy, Scikit-learn , TensorFlow.
- Artificial Intelligence** : Neural Networks, Natural Language Processing (NLP), Computer Vision
- Machine Learning / Deep Learning** : Supervised and Unsupervised Learning, Model Evaluation, Hyperparameter Tuning.
- Version Control and Web Development** : Git , HTML , CSS.

PROJECTS

- Credit card fraud Detection**: Built a model to detect fraudulent transactions with 95% precision on a imbalanced dataset.
Skills : Data balancing using SMOTE, Random Forest and F1-score analysis. **Tools** : scikit-learn , seaborn
- Movie Genre Classification** : Classified movies into genres using plot summaries with TF-IDF and attained accuracy of 88%.
Skills : Text preprocessing, Naive Bayes classifier, NLP techniques. **Tools**: Python , scikit-learn.
- Customer Churn Prediction** : Engineered an advanced churn prediction algorithm achieving 82% recall; facilitated personalized outreach efforts to over 300 targeted users, leading to improved retention rates and strengthened customer loyalty.
 - Created a robust feature selection framework that reduced data redundancy by 50%, allowing for faster model training; integrated matplotlib for effective data visualization, which improved stakeholder understanding of complex datasets.
- Iris Flower Classification** : Created a simple classification model for the iris dataset , achieving 96% accuracy.
Skills : KNN , support vector machines , visualization. **Tools** : scikit-learn , seaborn
- Sales Prediction** : Predicted future sales trends with a 10% improvement in accuracy compared to baseline.
Skills : Linear regression , time series analysis. **Tools** : Python , pandas , NumPy.

EXPERIENCE

- Machine Learning Intern - CodSoft** Remote | December 2024 – January 2025
 - Developed and deployed **5+ machine learning models** using Python and Scikit-learn, achieving up to **95% accuracy** in classification tasks.
 - Pre-processed and analyzed **100,000+ data points** to enhance model efficiency and reduce training time by **20%**.
 - Collaborated with mentors, incorporating feedback to improve project deliverables, leading to a **30% performance improvement** in models..
- Data Science Intern – CodSoft** Remote | December 2024 – January 2025
 - Conducted exploratory data analysis on **real-world datasets with 50,000+ records**, uncovering key insights that improved feature engineering processes by **25%**.
 - Utilized Python libraries (Pandas, NumPy, Matplotlib) to preprocess data, reducing missing values and inconsistencies by **90%**.
 - Contributed to the development of **3 data-driven projects**, collaborating with mentors and team members to solve complex problems, achieving **100% project completion rate** within deadlines.

CERTIFICATES

- AWS APAC's Solutions Architecture virtual experience program** [aws-forage](#) December 2024
 - Designed and simple and scalable hosting architecture based on Elastic Beanstalk for client experiencing significant growth and slow response times.
 - Described my proposed architecture in plain language ensuring my client understood how it works and how costs will be calculated for it.
- Accenture UK's Developer and Technology virtual experience program** [accenture-forage](#) December 2024
 - Completed the Developer and Technology Job Simulation where I developed an end to end understanding of the Software Development Lifecycle.
 - Conducted in-depth research into emerging technology trends, particularly in the field of DevOps.
 - Created and delivered a compelling PowerPoint presentation analyzing and comparing Waterfall and Agile methodologies.
 - Designed a custom algorithm using pseudocode and effectively communicated its logic by creating a detailed flow diagram.
 - Debugged a program written in Python by fixing syntax and logic errors in the code.

EDUCATION

- Bachelor of Engineering in Artificial Intelligence and Data Science** 2026
Anantrao Pawar college of Engineering and Research, Pune (Currently in 3rd year)
- Higher Secondary Education (12th Grade)** 2022
The New Era Junior College, Jalgaon jamod : 70%
- Secondary Education (10th Grade)** 2020
Sahakar Vidya Mandir English Medium School , Warwat Bakal : 88%