

# ANURAG SURYAPRAKASH TIWARI

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## Education:

Qualification	Year	College	Grade/CGPI
GRADUATION( BScIT)	2021-2024	ANNASHEB VARTAK COLLEGE, VASAI(WEST)	9.68/10

## Experience:

### Software Developer — Itedium (*Oct 2024 – Present*)

- Developed and maintained **internal healthcare platforms** using Symfony 1.x, Laravel 7, and Go, ensuring accurate processing of member data including benefits, employment, and eligibility.
- Enhanced 834+ EDI → JSON pipelines using Go and Omniparser, improving data processing efficiency.
- Owned analysis, development, and testing of **high-impact production fixes**, resolving invalid, duplicate, and inconsistent data in a large-scale batch-driven system.
- Refactored **legacy business logic** to handle edge cases and complex record life cycles, preventing downstream errors and improving system stability.
- Implemented **defensive validation logic**, eliminating false-positive errors and reducing manual review workload.
- Delivered **time-sensitive rule and pricing updates** under strict deadlines with zero critical post-release issues.
- Built and enhanced **UI and backend features** using Go, PHP, HTML, CSS, JavaScript, and AJAX.
- Collaborated in an **Agile team**, managing code with Git and tracking tasks in JIRA, ensuring smooth cross-team coordination.
- Key impact: Improved system reliability, reduced operational noise, eliminated critical data errors, and ensured production stability.

## Projects:

### Power Consumption Prediction

- Built a time-series regression model to predict household electricity consumption using sensor readings, time features, and lag variables
- Achieved **R<sup>2</sup>: 0.9987**, **RMSE: 0.0329**, **MAE: 0.0177** using a Random Forest Regressor with feature selection
- Deployed an interactive **Streamlit app** supporting single and batch predictions with real-time metrics
- **Tech Stack:** Python, Pandas, NumPy, Scikit-learn, Streamlit, Docker.

### Customer Churn Prediction

- Developed a churn prediction model using customer demographics, billing data, and service usage features
- Achieved **82.1% accuracy** and **ROC-AUC: 0.87** using a class-balanced Random Forest classifier
- Implemented preprocessing pipelines for missing values, scaling, and categorical encoding; deployed with Streamlit
- **Tech Stack:** Python, Pandas, NumPy, Scikit-learn, Streamlit, Docker.

### Titanic Survival Predictor

- Built a classification model to predict passenger survival using demographic and travel data with custom feature engineering
- Achieved **82.3% accuracy**, **ROC-AUC: 0.87**, and **81.5% ± 2.1% cross-validation score**
- Deployed a Streamlit app supporting both single and batch CSV predictions with probability outputs
- **Tech Stack:** Python, Pandas, NumPy, Scikit-learn, Streamlit, Docker.

**Technical Skills:**

- **Machine Learning & Data:** NumPy, Pandas, scikit-learn
- **Programming Languages:** Python, Go, PHP, C, C++ ,JavaScript
- **Web & Backend Frameworks:** Laravel, Symfony , Streamlit
- **Databases:** MySQL, MongoDB
- **DevOps & Tools:** Docker, Git
- **Frontend:** HTML5, CSS

**Others:**

- **Hobbies :** Learning New Technologies, Cricket
- **Languages:** English, Hindi.