

# FARSANA THASNEM PA

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## SUMMARY

Aspiring data scientist with a strong foundation in physics and expertise in machine learning and data analysis. Proficient in Python, SQL, and visualization tools with hands-on experience in predictive modeling and statistical analysis. Seeking to leverage my skills to solve real-world data challenges and contribute as a senior data scientist in the future.

## SKILLS

- Programming Languages: Python, SQL
- Machine Learning: Supervised/Unsupervised Learning, Hyperparameter Tuning, Grid Search Cross-Validation, Outlier Detection
- Data Analysis: Data Cleaning, Feature Engineering, Dataset Balancing
- Visualization Tools: Matplotlib, Seaborn, Power BI, Tableau
- Other Tools: Git, Jupyter Notebook, Opencv, Excel

## WORK EXPERIENCE

### Data Scientist Intern

Techolas Technologies, Calicut, Kerala  
July 2024 - Present

- Built and deployed machine learning models with an emphasis on feature selection and hyperparameter tuning.
- Automated data preprocessing workflows, reducing manual effort by 40%.
- Designed and presented findings through interactive dashboards to support decision-making.
- Collaborated with cross-functional teams to implement best practices in data analysis.

## EDUCATION

### Bachelor of Science (BSc) in Physics

University of Calicut, Kerala, India  
2021-2024

## PROJECTS

### Predicting Income Levels Using Machine Learning

- Dataset: Adult Income Dataset (32,562 rows, 15 columns)
- Tools: Python, Scikit-learn, Pandas, Matplotlib
- Applied grid search cross-validation to optimize model performance.
- Created visualizations to communicate insights and model predictions.

### Optical Fiber Analysis (Academic Project)

- Designed and implemented experiments to study the behavior of light through optical fibers.
- Analyzed data using Python and documented findings in a detailed research report.

## LANGUAGES

- English (Fluent)
- Malayalam (Native)