

# VISHNU SHREERAM M.P.

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[github](#)

[portfolio](#)

## Carrer Objective

I aim to build efficient, real-world solutions. Seeking a role to apply my strong foundation in Math and Machine Learning while growing technically and contributing to innovative projects.

## Education

**Indian Institute of Technology, Palakkad**

Expected May 2026

*Bachelor of Technology in Data Science (CGPA: 9.53 / 10)*

*Palakkad, Kerala*

- **Relevant Coursework:** DSA (Python), Optimisation, Artificial Intelligence, Database Systems, Computer Systems for Data Science, Discrete Maths, Probability & Statistics, Linear Algebra, Multivariable Calculus, Machine Learning, Data Mining, Data Analytics. **Ongoing-Deep Learning, MLOps, Big Data Lab, NLP**

## Experience

**Laboratory of Statistical Artificial Intelligence and Machine Learning**

May 2024 – July 2024

*Summer Intern*

*Palakkad, Kerala*

- Worked under Associate Professor Narayanan C. Krishnan at IIT Palakkad, on optimizing Bosch's SMT assembly line for PCB production, handling 32 different PCBs with a variety of 200 unique components
- Focused on maximising assembly line efficiency by optimising the pick-and-place mechanism.
- Developed various approaches to determine the optimal Product Grouping, feeder arrangement and pick-up cycles, addressing real-world challenges faced by Bosch.
- Genetic Algorithms, Mixed Integer Linear as well as Non-Linear Programming Techniques were used.

## Projects

**VoicePilot - Voice Control System** | Python, FastAPI, uv | [Github Repo](#)

- Developed a full-stack voice control system using a SaaS workflow with Python FastAPI microservices & RESTful APIs. Enabled users to control browser and system actions and monitor hardware through voice commands.
- Integrated Playwright for advanced browser automation, allowing voice-controlled web navigation.
- Designed a modular system with dedicated services for transcription, browser control, and hardware monitoring.
- Containerised the project with uv and ensured reliability with robust error handling, structured logging, and clean code practices using JustFile, Ruff, YAML, and TOML for configuration management.

**ShopTrends – Data Analytics for Retail Optimization** | Python, SQLite, FastAPI | [Github Repo](#)

- Developed a dashboard for shop owners to track sales trends & revenue distribution with live database updates.
- Implemented Association Rule Mining to identify purchasing patterns and recommend profitable bundle offers.
- Built a real-time transaction simulation system to analyze customer purchase behaviour dynamically.

**Stress-Sleep Disorder Prediction** | Python, Streamlit | [Github Repo](#)

- Developed and optimized ML models to predict stress and sleep disorders using health and lifestyle data, leveraging hyperparameter tuning.
- Deployed the solution online with Streamlit for real-time predictions.(Try it here!)

**Central Instrumentation Facility (CIF) Database Management System** | PostgreSQL, Python | [Github Repo](#)

- Developed a comprehensive Slot Booking Database Management System using PostgreSQL.
- Incorporated 25 necessary triggers, functions & procedures simulating the requirements of CIF at IIT Palakkad
- Collaborated in a team of 4 to implement a simple, intuitive front-end & back-end enabling smooth interaction with the DB for users, including students, faculty, & staff each with customised views tailored to their roles

## Technical Skills

**Languages:** Python, PostgreSQL, R **Libraries worked with:** Numpy, Pandas, Matplotlib, Scikit-learn, TensorFlow

**Technologies:** Apache Hadoop, Apache Hive, FastAPI, MATLAB, Git, Linux, Jupyter, Vector Databases

## Awards and Achievements

**Certificate of Academic Excellence**

2023,2024

- Certificates awarded by IIT Palakkad for securing the highest CGPA among **first-year** and **second-year** BTech students in Data Science and Engineering in the academic year 2022-'23 and 2023-'24 respectively.