SEIA SHIBU

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PROFESSIONAL SUMMARY

Aspiring software engineer with a strong background in machine learning and data analytics. Passionate about designing and developing scalable, user-centric applications that transform complex datasets into actionable insights. Driven to grow into a versatile engineer capable of building reliable, high-performance software by combining clean code practices, performance optimization, and data-driven problem solving in collaborative team environments

SKILLS

- **Programming & Web**: Python, Java, JavaScript (React.js, Node.js, Flask, FastAPI)
- **AI/ML**: TensorFlow, PyTorch, Scikit-learn, LangChain,MLOps,ZenML, MLflow , Feature Engineering
- **Databases & Cloud**: MySQL, MongoDB, Azure, Docker, Kubernetes
- **Data Science Tools**: Pandas, NumPy, Matplotlib, Jupyter Notebook
- **Version Control & Dev Tools**: Git, Postman, VS Code

EDUCATION

BACHELOR OF ENGINEERING IN ARTIFICIAL INTELLIGENCE & DATA SCIENCE (2022-2026)
RNS INSTITUTE OF TECHNOLOGY BANGALORE

PRE-UNIVERSITY KARNATAKA BOARD (2020-2022)
POORNAPRJNA COLLEGE ADAMAR UDUPI

PROJECTS

Autism Spectrum Disorder Prediction System | https://github.com/SeiaShibu/Autism-predicting-system

- Developed an Autism Spectrum Disorder (ASD) prediction model using transfer learning (ResNet18) with class-weighted loss and data augmentation to improve accuracy on limited, imbalanced data.
- Applied Grad-CAM (Explainable AI) to generate visual heatmaps, making the model's decisions transparent and clinically interpretable.
- Implemented real-time ASD risk prediction with OpenCV, enabling live eye-tracking input and instant classification.
- .**Technologies Used**:Python, PyTorch, OpenCV, NumPy, Matplotlib,CNN

Complaint Management System | https://github.com/SeiaShibu/Complaintsystem

- Built a user-friendly complaint submission and tracking portal with role-based access.
- Created reusable React components integrated with backend workflows for status updates.
- Enhanced frontend data handling to ensure real-time updates and smooth user experience.
- Technologies Used:HTML5 ,CSS3 ,JavaScript ,React.js ,Node.js/Express ,PostgreSQL

House Price Predicting System | https://github.com/SeiaShibu/PRICE-PREDICTING-SYSTEM

- Conducted exploratory data analysis (EDA) and built visualizations to reveal key trends and guide feature engineering, boosting model accuracy.
- Designed, trained, and validated a regression model, following best practices for testing, evaluation, and scalability.
- Set up MLOps workflows with ZenML and MLflow for experiment tracking, model versioning, and automated production deployment.
- Technologies: ZenML , MLflow , MLOps , Feature Engineering , Model Validation

PARTICIPATIONS

Sharkathon (AIT Chikkamagaluru) – Loan Prediction System
- Developed a Loan Prediction System using Explainable AI (XAI)

Hackathon (BMS Bangalore) – AI for Marine Ecosystem Conservation
- Developed a machine learning model for water quality analysis to monitor marine health.

CERTIFICATION

- Python for Data Science – Cognitive class by IBM (2023)
- Full-Stack Web Development Bootcamp – Udemy (2024)
- DATA SCIENCE FOR ENGINEER-NPTEL(2025)
- **LANGUAGES KNOWN:** ENGLISH,MALAYALAM,KANNADA