Harsh Shelke

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EDUCATION

University of Illinois at Chicago   Chicago,IL
Master of Science in Computer Science   *Aug. 2024 – May 2026*

MIT World Peace University   Pune,India
Bachelor of Technology in Computer Science and Engineering   *Aug. 2020 – June 2024*

EXPERIENCE

ML Intern   Aug 2023 – Jan 2024
AI Adventures LLM   *Pune, INDIA*
- Developed data-driven solutions by implementing machine learning models to support predictive analytics.
- Conducted extensive EDA and built data visualizations to uncover insights and inform model design.
- Improved model efficiency with advanced feature engineering and preprocessing techniques.
- *Skills: Python, machine learning, data analysis, statistical modeling, Pandas, NumPy, Matplotlib, Seaborn.*

Software Intern   Jan 2024–Jun 2024
BizAmica Pvt.Ltd.   *Pune, INDIA*
- Designed and implemented microservice architecture to optimize data pipelines and enhance system performance.
- Built dynamic front-end interfaces using Angular for visualizing document metrics, including page counts and summaries.
- Collaborated with cross-functional teams to integrate APIs, ensuring seamless communication between services.
- *Skills:Angular, Flask, Python, API Integration, Microservices, Frontend Development.*

PROJECTS

HarshFit - Fitness Application| *React, Tailwind CSS, Netlify,Javascript*   Dec 2024 – Jan 2025
- Designed and deployed a fitness application enabling users to create and manage personalized workout plans.
- Utilized responsive design principles to ensure accessibility across devices.
- Implemented interactive UI components using React hooks like useState and useReducer.
- Showcased the project by deploying it on Netlify: **https://harshgymapp.netlify.app/**
- *Skills: React, JavaScript, Tailwind CSS, Responsive Design, Web Development.*

Heart Failure Prediction / *Python, Seaborn, Matplotlib, Pandas,Scikit_learn,scipy.stats*   Aug 2024 – Sep 2024
- Built a predictive model for cardiovascular mortality using machine learning algorithms.
- Conducted statistical analysis and hypothesis testing to identify significant features.
- Enhanced model accuracy with hyperparameter tuning and visualized results for clarity.
- *Skills: Machine Learning, Feature Engineering, Data Analysis, Model Optimization*

Tour Package Prediction / *Python,Seaborn,Matplotlib,Scikit_learn,Pandas,scipy.stats*   Nov 2024 – Dec 2024
- Developed an ML model for predicting travel package preferences, achieving high accuracy.
- Integrated Principal Component Analysis (PCA) to enhance model efficiency.
- Built a robust preprocessing pipeline for data cleaning and feature encoding.
- *Skills: Machine Learning, PCA, Data Preprocessing, Model Evaluation.*

TECHNICAL SKILLS

Languages: Java , Python, SQL, HTML,CSS,React , Javascript, C, C++, TypeScript, Bash/Shell, MATLAB, Dart.
Frameworks: Django, Flask, MySQL, Angular, FastAPI, Angular, Spring Boot, Node.js, Vue.js, Next.js.,ASP.NET.
Developer Tools: Git, Google Colab, Jupyter, VS Code, Netbeans, MS Word, Trello, Slack, , IntelliJ IDEA, Eclipse,
Libraries: pandas, NumPy, Matplotlib, Seaborn,scikit-learn, scipy.stats, tensorflow,xgboost. TensorFlow and React.