

# ASHUTOSH KR JHA

SOFTWARE ENGINEER

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## PROFESSIONAL OVERVIEW

Software Engineer skilled in **Python, SQL, and ML**, specializing in **predictive modeling, time series forecasting, and data visualization**. Experienced in **debugging, optimizing ETL pipelines, and documenting workflows in Jupyter Notebooks**. Passionate about developing **AI-driven solutions** to solve real-world problems.

## PROJECTS

### Hate Speech Detection on Social Media. [\[GitHub\]](#)

Final Year Project | June 2023- June 2024

- Developed a multilingual hate speech detection model using Random Forest, Bangla BERT, and SVM for binary and multiclass classification.
- Processed and cleaned 10,000+ samples with advanced text preprocessing techniques
- Achieved 79% accuracy through feature engineering and hyperparameter tuning.

### Data Pipeline & API Optimization (Python, SQL, FastAPI, CI/CD, Azure, Tableau). [\[Link\]](#)

Self-Project | Nov 2024 - Jan 2025

- **Optimized ETL data pipelines** by refactoring Python scripts & SQL queries, improving accuracy by **25%** and reducing processing time by **40%**.
- **Developed and integrated RESTful APIs using FastAPI, enhancing data accessibility and system interoperability.**
- **Automated CI/CD workflows** with GitHub Actions, ensuring seamless deployment, testing, and scalability on cloud infrastructure.

### Portfolio Website (HTML, CSS, JavaScript, React). [\[GitHub\]](#)

College Project | Nov 2024 - Jan 2025

- **Designed and developed a responsive portfolio website** to showcase professional achievements and projects.
- **Implemented React for dynamic interactivity** and seamless navigation.
- **Optimized UI/UX for better accessibility and performance**, ensuring a smooth user experience.

### Resume Builder (React, JavaScript, HTML, CSS) [\[GitHub\]](#)

College Project | Dec 2021 - Jan 2022

- Developed an interactive **resume builder** using React to help users generate professional resumes effortlessly.
- Designed a **responsive and user-friendly UI with HTML, CSS, and JavaScript**, ensuring accessibility across devices.

## EDUCATION

### **Bachelor's degree**

Techno Main Salt Lake 2021-2024  
Computer Science and Engineering-  
AIML (CGPA: 7.98)

### **Diploma degree**

Techno India Polytechnic 2018-2021  
Computer Science and Technology –  
76%

## SKILLS

- SQL (joins, window functions, CTEs)
- Machine Learning
- Python, Java, c++,HTML,CSS
- Dashboard Development
- Cloud (GCP, AWS)
- Jupyter notebooks, Git & GitHub
- Problem-Solving, Critical Thinking

## ACHIEVEMENTS

### **Award/Achievement**

Secured Gold Badge in SQL on HackerRank

### **Award/Achievement**

Ranked Top 10% (Rank: 2742) on Kaggle leaderboard by optimizing MAPE.

## PROFESSIONAL DEVELOPMENT

### **Course/Workshop**

Completed Google Foobar Challenge by Google [\[link\]](#)

### **Course/Workshop**

Won Robotics Workshop in College 2021