

# Ashish Pathinnya

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## EDUCATION

### National Institute of Technology Arunachal Pradesh

*Master of Technology in Computer Science and Engineering*

Jote, Arunachal Pradesh

*August 2024 - Present*

### Dhemaji Engineering College

*Bachelor of Technology in Computer Science and Engineering, CGPA: 7.55/10.0*

Guwahati, Assam

*June 2020 - June 2024*

## EXPERIENCE

### RPA & Test Automation Intern

*Indian Oil Corporation Limited*

July 2023 – Aug 2023

*Guwahati Refinery, Assam*

- Developed robotic process automation solutions using Python, Selenium, Google API, and Zoom API
- Created real-time Zoom meeting automation based on email content analysis improving workflow efficiency by 40%
- Collaborated with cross-functional teams to integrate automation solutions into existing enterprise systems

### Web Development Intern

*Assam Power Distribution Company Limited*

Aug 2023 – Sep 2023

*Guwahati, Assam*

- Developed responsive electricity unit calculator web application using HTML5, CSS3, and JavaScript
- Implemented user-friendly interface with real-time calculation functionality and form validation
- Optimized application performance and ensured cross-browser compatibility across multiple platforms

## PROJECTS

### SecureChain Messenger | *React, TypeScript, Express.js, Vite, Tailwind CSS, Web Crypto API*

2025

- Developed decentralized blockchain-inspired secure messaging platform with end-to-end encryption using AES-256-GCM and RSA-2048
- Implemented real-time message verification using blockchain-like structure and user identity management through automatic cryptographic key generation
- Built secure message storage and integrity verification via blockchain simulation with live mining dashboard

### GitHub Repository Analysis Dashboard | *React, Vite, Tailwind CSS, Recharts*

2025

- Created interactive dashboard analyzing GitHub repository metrics using dataset of 1052 repositories
- Implemented visual insights and sortable tables to identify contribution opportunities and repository trends
- Built CSV export functionality for cleaned and sorted data with contribution potential ranking

### House Price Prediction | *Python, Jupyter Notebook, LightGBM, Pandas, Scikit-learn*

2025

- Built regression model using Kaggle House Prices dataset (1400+ entries, 80+ features) with comprehensive data preprocessing, feature engineering, and one-hot encoding to predict house sale prices accurately
- Achieved cross-validated RMSE of 0.0103 (+/- 0.0013) using hyperparameter-tuned LightGBM model optimized through GridSearchCV, demonstrating strong predictive performance on processed data with zero missing values
- Identified key price-influencing features through feature importance analysis, with TotalSqFeet (192), LotArea (164), GrLivArea (130), GarageArea (127), and YearBuilt (118) showing highest importance scores

### Emotion Detection Chatbot | *Python, TensorFlow, Keras, OpenCV, Tkinter, Google Generative AI*

2024

- Developed intelligent chatbot with real-time facial emotion recognition using pre-trained CNN model
- Implemented emotion classification across 7 emotion categories with 92% accuracy
- Built intuitive Tkinter GUI with seamless video processing and user interaction capabilities

### Real-Time Face Recognition System | *Python, OpenCV, Scikit-learn, NumPy, Joblib*

2023

- Implemented advanced face recognition system using LBPH and SVM algorithms with 95% accuracy
- Developed real-time face detection and recognition in various lighting conditions with live video processing
- Optimized performance using efficient data structures and algorithms for reduced false positives

### Instagram Automation Bot | *Python, Selenium, ChromeDriver*

2023

- Developed automated Instagram bot with intelligent login process and web crawling functionality
- Implemented hashtag-based media post scraping and automated storage system
- Built robust error handling mechanisms and anti-detection features for reliable automation

## CERTIFICATIONS

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**NPTEL Database Management System** - Certified

**EC Council Learning - Ethical Hacking Essentials** - Certified

## TECHNICAL SKILLS

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**Programming Languages:** Python, TypeScript, JavaScript, C++, C, HTML5, CSS3, SQL

**Frameworks & Libraries:** React, Express.js, Node.js, TensorFlow, Keras, Scikit-learn, Pandas, NumPy

**Tools & Technologies:** Vite, Tailwind CSS, OpenCV, Git, Web Crypto API, Recharts, LightGBM

**Databases:** MySQL, MongoDB, PostgreSQL

**Operating Systems:** Kali Linux, Windows, Ubuntu