# Saptarshi Biswas

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## Experience

**Software Engineering Virtual Internship – JPMorgan Chase & CO.**
- *Interface with a stock price data feed*
- *Use JPMorgan Chase & Co. frameworks and tools*
- *Display data visually for traders*
- *Bonus task: Open source contribution.*

**Web Development Intern - Bharat Intern**
- *Engineered reusable components to enhance web app performance.*
- *Engineered responsive design elements to ensure optimal viewing across various devices and screen sizes.*

**Web Development Intern – Oasis Infobyte**
- *Directed UI development using HTML, CSS, and JavaScript.*
- *Implemented advanced algorithms to ensure quick and accurate URL processing and redirection.*

## Projects

- **Voice Assistant (link:** https://github.com/Saptarshi2060/Voice_assistant **)**
  - *Voice Recognition: Utilizes the Speech Recognition library to recognize voice commands.*
  - *Text-to-Speech: Employs pyttsx3 for converting text responses into audible speech.*
  - *Web Interaction: Uses web scraping and web browser automation for tasks like fetching weather data and opening websites.*
  - *Multithreading: Implements threading for handling multiple tasks simultaneously, like playing YouTube videos in the background.*
  - *GUI Interface: Includes a basic GUI using tkinter for starting and stopping the assistant.*
- **Responsive Portfolio (link:** https://saptarshi2060.github.io/Portfolio/responsive_portfolio/index.html**)**
- **Facial Expression Detection (link:** https://github.com/Saptarshi2060/Facial-Expression-Detection**)**
  - *Real-time Emotion Detection: Utilizes webcam feed to detect and predict emotions on faces.*
  - *Face Detection: Uses OpenCV's Haar Cascade Classifier to detect faces in frames captured by the camera.*
  - *Emotion Recognition: Employs a ResNet18 model fine-tuned for emotion recognition among seven classes (Angry, Disgust, Fear, Happy, Sad, Surprise, Neutral).*
- *User Interface: Displays real-time video feed with bounding boxes around detected faces and overlays predicted emotions with confidence scores..*
- **File Converter Web Application (link:** https://github.com/Saptarshi2060/File_Converter**)**
  - *PDF to Word Conversion: Converts PDF files to Word documents (.docx).*
  - *Word to PDF Conversion: Converts Word documents (.docx) to PDF files.*
  - *Image to PDF Conversion: Converts images (supports various formats) to PDF.*
  - *PDF to Image Conversion: Converts the first page of a PDF file to an image (.jpg).*
  - *Excel to DataFrame (JSON): Reads an Excel file and returns its data as JSON.*
  - *DataFrame (JSON) to Excel: Converts JSON data to an Excel file (.xlsx).*
  - *Increase File Size: Adds 1 MB of data to any file, effectively increasing its size.*
  - *Decrease File Size: Reduces the size of any file by half.*

## Education

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|---|---|
| **Techno India University** | *Kolkata, India* |
| *Masters of Computer Application, CGPA – 8/10* | **2023-Present** |
| **Techno India University** | *Kolkata, India* |
| *Bachelors of Computer Application, CGPA – 8.85/10* | **2020-20203** |

## Certifications

- AWS Academy Cloud Foundation
- SAP S/4HANA Development
- Google Data Analytics
- TCS iON Career Edge - Young Professional
- Technology Virtual Experience Program – Deloitte
- Introduction to cyber security – Cisco
- Introduction to Cloud (CC0101EN, provided by IBM)
- Python 101 for Data Science (PY0101EN, provided by IBM)
- SQL and Relational Databases 101 (DB0101EN, provided by IBM)
- Data Science 101 (DS0101EN, provided by IBM)

## Skills

**Programming and Scripting Languages:**
- Python
- HTML5
- CSS3
- JavaScript
- Node.js
- React
- PHP

**Database, Tools & Technologies:**
- MongoDB
- MySQL
- SQL
- Git
- VS Code
- XAMPP
- Microsoft Office
- GitHub