

# SAURABH JOHRI

Jabalpur, MP, India • +916264313665 • saurabhxj@gmail.com

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## WORK EXPERIENCE

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### **Code Argo • India (Remote) • 05/2024 - Present**

#### **Software Developer • Full-time**

Implemented software solutions for BITS Pilani

- Developed the redesign of the student portal website from scratch using Django, HTML/CSS, Javascript and Bootstrap.
- Developed a web application in Django to track institute faculty retention requests.
- Created and managed OS images for virtual labs in AWS cloud.
- Developed Go (golang) programs for pdf generation, automatic machine power-off upon screensaver activation, http server for virtual machine state alerts.
- Developed Python program to automate birthday greeting emails with dynamic content for institute faculty members.

### **Boston University • Boston, MA • 10/2020 - 02/2021**

#### **AI & Emerging Media Research Group**

- Engineered an image classification system for climate change analysis using a series of CNNs, processing 1000s of images from traditional news and Twitter sources.

### **IIITDM Jabalpur • Jabalpur, MP, India • 05/2018 - 07/2018**

#### **Deep Learning Research Intern**

- Implemented a deep generative adversarial network (GAN) for image steganography in Keras based on a PyTorch implementation from a paper titled HiDDeN (Jiren Zhu et al.). Training set consisted of 10000 images.
- Maintained regular communication and conducted periodic check-ins with internship mentors to discuss progress updates and address any project requirements or concerns.

## EDUCATION

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### **MS in Artificial Intelligence**

Boston University • Boston, MA, USA • GPA: 3.8 / 4.0 • 09/2020 - 01/2022

### **B.Tech. in Electronics and Communication Engineering**

Indian Institute of Information Technology, Una • Una, HP, India • 07/2016 - 08/2020

## PROJECTS

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### **VoteAmerica - Audience Analysis for Vote-By-Mail Text Messages**

- Analyzed 8.8 million text messages sent to voters across the US during the 2020 election cycle.
- Studied the demographics of targeted people and voting rates in that group.
- Led discussions between the client and the project team to better understand and deliver on the project requirements.

### **Financial News Curation and Analysis [Python]**

- Correlated media (news) sentiment about companies with stock market performance by measuring volatility, momentum RSI, exponential moving average (experiment metrics - Pearson's, Spearman's correlation, and Granger causality).
- Co-ordinated the project presentation in a virtual town hall format, engaging peers and professors online to effectively communicate project objectives, findings, and insights.

### **Object Tracking using Kalman filters [Python]**

- Tracked positions and trajectories of bats, and cells in a petri dish by utilizing Kalman filters.
- Kalman filters were implemented using the OpenCV python library.

## SKILLS

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**SKILLS & TOOLS:** Agile methodology, C#, C++, Computer Vision, git, Godot, html/css, Machine Learning, matplotlib, nltk, numpy, pandas, Python, Raylib, scikit-learn, TensorFlow, Unity, Unreal Engine