

# Madhura Suryawanshi

## Software Engineer

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### TECHNICAL SKILLS

- **Languages:** Python, JavaScript, Java, HTML5, CSS, Shell scripting
- **Libraries/Frameworks:** Django, Node.js, React, Jenkins, Kafka, NLTK, Spacy, Scikit
- **Machine Learning/Artificial Intelligence:** Statistical analysis, Linear/Logistic Regression, Clustering, NLP
- **Databases:** SQL, NoSQL, MySQL, MongoDB
- **Cloud/Technologies:** AWS, Google Cloud Platform, Docker, Linux, BigQuery, Github, RestAPI, Jira

### PROFESSIONAL EXPERIENCE

**Junior Software Engineer**, Neova Solutions, India

September 2017 – June 2019

- Designed, developed, and implemented a low-cost data analytics pipeline by harnessing Kafka, Streamsets, and JavaScript, resulting in a 25% cost reduction
- Built a prototype model to examine written customer feedback using Python and Spacy to classify user experience as positive, negative, or neutral.
- Led a team of 3 engineers through spearheading a data analytics project from start to finish by meeting delivery deadlines and creating documentation
- Researched Kaldi Software, a voice recognition open source technology written in C++, and trained the medical domain model to allow medical professionals to convert voice to text.
- Assisted in automation testing of an AWS and Linux security application by attaining new levels of testing.
- Collaborated with a team to design an ATS system for an in-house project and identified areas for modification in existing system and subsequently developing these modifications

### PROJECTS

**Emotion detection using Facial Expressions**

January 2021 - May 2021

- Developed an AI model to detect facial expression using Python, Keras, and OpenCV to classify emotions in real-time into 7 different categories

**IoT Sensor Simulation and Cloud Connection**

September 2020 - December 2020

- Built an IoT application by designing a small IoT temperature sensing device using python and transmitted the data to an Azure IoT hub in order to store and access data anytime in real-time
- Designed a UI for the temperature vs time plot by fetching data from the Azure IoT hub allowing users to monitor the temperature and report temperature rise

**Alphabet recognition using single perceptron:** (Artificial Neural network)

January 2020 - February 2020

- Demonstrated Alphabet recognition model using single perceptron by classifying each alphabet against input and plotted a graph for epoch vs error rate(number of misclassified items)

**Tap Keyboard:**

August 2016 - April 2017

- Designed a Tap keyboard using Gyroscope, Arduino for programming, Bluetooth for connecting mobiles and Android app to enable typing by just tapping fingers of single hand on any surface.

### EDUCATION

**M.S, Computer Science**, GPA (3.68), California State University, Fullerton

August 2019 - May 2021

*Relevant Coursework:* Artificial Neural Network, Artificial Intelligence, Advanced Database Management

**B.E, Computer Science**, Shivaji University, India

August 2013 - May 2017

*Relevant Coursework:* Object-Oriented Design, Data Structures and Algorithms, Software Engineering, Computer Architecture and Design, Operating Systems [Unix], OOP, Software Testing(unit testing)

### CERTIFICATIONS

**Certificate-** Machine Learning, coursera.org

November 2020