# Abhishek M. Shastry K.

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*My varied experiences, from developing robust backend systems to creating intuitive user interfaces, have equipped me with a holistic understanding of software engineering. I am open to new challenges and opportunities that allow me to continue exploring the field of web and full-stack development.*

## EDUCATION

**The University of Iowa (UIowa)**                                                                                  Iowa City, IA, USA
*Master's in Computer Science, CGPA: 3.77/4.00*                                                     *Aug. 2023 - May 2025*

**Alva's Institute of Engineering and Technology (AIET)**                                  Mangalore, KA, India
*B.E. in Electronics and Communication Engineering, CGPA: 8.74/10.00*                  *Aug. 2017 - Aug. 2021*

## EXPERIENCE

**HealthEdge Software**                                                                                           Bangalore, KA, India
*Software Engineer (Student Intern for first six months)*                                          *Jan. 2021 - July 2023*

- Played a pivotal role in a Kubernetes project, focusing on the containerization of HealthEdge products, which significantly enhanced deployment efficiency and scalability
- Worked on automated branch creation via Jenkins, achieving a 75% reduction in release process time and enhancing workflow efficiency
- Actively involved in Kanban-driven software development, managing and prioritizing Kanban tickets to ensure efficient project flow
- Served as a mentor to HealthEdge interns, imparting comprehensive product knowledge and technical guidance
- Performed tasks such as handling NullPointerException bugs (bringing the number down from over a hundred to zero), reducing Cognitive Complexity, and writing unit tests to improve code coverage during my internship

**National Remote Sensing Centre**                                                                          Hyderabad, TS, India
*Student Intern*                                                                                                          *Jan. 2020 - Mar. 2020*

- Designed a 3D satellite-globe model using Autodesk (Fusion 360)
- Based on the design, a functional physical globe and satellite model was built
- Orchestrated the motion of the Earth, polar satellite, and geostationary satellite through motor control and an Arduino Uno setup

## PROJECTS

**Micro Weather Station** [mws-project.netlify.app]                                             Mangalore, KA, India
*Alva's Institute of Engineering and Technology*                                                       *Jan. 2021 - May 2021*

- Built a micro weather station that measures various environmental variables and uploads the measured data into a server for processing
- The system was built using a Raspberry Pi which interfaced various sensors to measure temperature, humidity, soil moisture, ultraviolet radiation, air pressure, and air quality
- Built an android mobile application that gives users the ability to perform real-time analysis on processed data from multiple micro weather stations. The application is published in Amazon Appstore: MWS Weather App

**Automatic detection of various emotions from textual comments and feedback**          Mangalore, KA, India
*TCS iON remote internship project*                                                                          *Oct. 2020*

- Developed a machine learning algorithm utilizing various text classifiers and preprocessing techniques to detect different types of emotion contained in a collection of English sentences or a large paragraph
- Evaluated and compared the effectiveness of multiple vectorization strategies (Count Vectorizer and TF-IDF Vectorizer) with multiple models (Multinomial Naive Bayes and Logistic Regression)
- Reported performance metrics such as Cross-Validation score, Accuracy, Precision, Recall, and F1 Score

## SKILLS

*Programming:* Java, C, C++, Python, JavaScript, HTML/CSS
*Developer Tools:* Git/GitLab, IntelliJ IDEA, Oracle SQL Developer, Oracle WebLogic Server, Spring Boot, Hibernate, Apache Camel, Apache ActiveMQ, JPA, SOAP, REST Web Services
*Operating Systems:* Windows, Linux, CentOs, Raspberry Pi OS
*Miscellaneous:* Kubernetes, Docker, Embedded C, Scikit-learn, Natural Language Toolkit, Shell (Bash/Zsh), Jenkins, Jira, SonarQube, Gatling, Microsoft office

## ACHIEVEMENTS AND CONTRIBUTIONS

**2022** Recognized as a Quarterly Star Performer at HealthEdge | **2019** Semi-finalists in India Innovation Challenge Design Contest organized by Texas Instruments | **2021** Organized workshop on Python for university freshers under Envision Lab, AIET |