

# AJAY SINGH KHALSA

I am a Computer Engineering Undergraduate Student at Vivekanand Education Society's Institute of Technology(VESIT). Driven by curiosity and passion for Machine Learning, Data Science, Web Development and all things AI, I envision an exciting future in the Industry.

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## EXPERIENCE

Intern

### SENSE IT OUT INTELLIGENT SOLUTIONS PVT LTD

June 2019 - July 2019 Pune, India

- Working with team on the development and integration of smart irrigation system to maximize yield by optimizing water use built with wireless IOT based Techniques
- Programming Microcontrollers using Arduino Platform
- Experience with Data analysis, optimizations and Circuit Construction

Web Developer

### VESIT ADMISSIONS

December 2019 - Present Mumbai, India

- Developed and maintained code for College Admission Website primarily using PHP, Laravel and cPanel.
- Helped manage the Technical process of Admissions.
- Handled all the technical queries of the students and the staff, optimized and updated the website user interface, and managed the database

## ACHIEVEMENTS

- Placed in top 5% in Summer Analytics Employee Attrition Kaggle challenge
- Published a paper on "A Survey of Mental Health Chatbots using NLP" at Elsevier SSRN series
- Semi-finalist of Project Deep Blue a Mastek Initiative Season 6 2020
- Shortlisted for AICTE Vishwakarma Award 2020

## SKILLS

HTML, CSS, Bootstrap, C, Python, Keras  
Tensorflow, Laravel, PHP, SQL



## EDUCATION / COURSES

Summer Analytics

IIT Guwahati

April 2020 - June 2020

Bachelor of Engineering

Vivekanand Education Society Institute of Technology

Expected June, 2022

HSC - 82.77%

Swami Vivekanand Junior College

June 2018

Mumbai, India

## PROJECTS

### Predicting Skeletal Maturity using Left Hand X-rays

- Developed & Deployed a model for predicting pediatric skeletal maturity of children from left-hand xray images using Deep learning techniques like CNN.

### MentalEase - A Virtual Mental Health Assistant

- Developed a NLP-based BERT chat bot deployed on Flutter that acts as a mental health assistant for people suffering from Anxiety and Depression.
- The app also connects users and therapists so as to provide patients with online therapy via video calling.

### Air Quality Visualisation

- Developed a Web-based dashboard that displays current air quality information along with air quality forecast according to the location specified by the user using Node.js, leaflet.js and nedb.

### Predicting Employee Attrition in the Dawn of Recession

- Developed a prediction model for Predicting Employee Attrition by the given data about his/her past history.

### Malaria Detection

- Malaria detection by itself is not an easy procedure and the availability of the right personnel across the globe is also a serious concern. Using Deep Learning Image Processing techniques to automatically classify and count the parasitized and uninfected cells.

### Predicting Credit Card Approvals

- Developed a classification model to automatically predict credit card approval using machine learning techniques.

## EXTRA-CURRICULAR

- Conducted a workshop on "Fundamentals of Linux" for the whole college as a part of Hacktoberfest Chapter 2020.
- Technical Management Head in CodeCell, VESIT
- Event Management Head in Developer Student Club, VESIT
- Lead Organizer for "CODE FOR CHANGE 2020" Hackathon with the purpose to solve Problems faced by NGO's using technology.