

Bhoomika Madhukar

Junior Data Scientist

Curious, motivated and teamwork-oriented engineer with significant experience in deep learning and computer vision, on a quest of creating meaningful research and development in deep learning.

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EXPERIENCE

Datalore Labs, Bangalore — *Junior Data Scientist*

Dec 2019 - present

Currently selected as a junior data scientist as part of a three-member team for the applied AI program where my responsibilities include training students and professionals on applied AI, working on adjusting the curriculum for students, and university needs, and assisting in projects taken up by the company.

Constient Global Solutions, Chennai — *Junior Data Science Intern*

Jan 2019 - Apr 2019

Involved in Data pre-processing and visualization of data for customer lifetime value prediction using Pandas, NumPy, Matplotlib. I was part of a team of four. I also conducted two-day Machine Learning training for five company professionals on basics of Machine learning on 11th and 12th February.

Speckbit Exploratories, Bangalore — *Data Science Research Intern*

Dec 2018 - Mar 2019

Developed content on Data Science and Machine learning for the Hacking Data Science Roadmap for their Roadmap application. Took up the responsibility of developing graphics for the Roadmap application.

Knowwrture Health Solutions Pvt Ltd, Bangalore – *Web Developer Intern*

May 2018- Aug 2018

As a part of a three-member team we built a Patient History collection tool. This tool asks a patient the primary symptom and based on this, a set of questions are displayed that can be answered with a 'Yes' or 'No'. Once the questionnaire is completed, a report is generated with the history of the patient. Technologies used - Django, PostgreSQL, HTML, Bootstrap.

PROJECTS

Face recognition using YOLO v2: Currently working on face recognition using YOLO v2 algorithm with 68-point landmark detector on over 40,000 images. Images include people facing up, down, front, left, right, upright, up left, downright, down left, top and back.

Tools used: Python, Keras, Dlib.

Creating new car models using GANS: Part of a research team to analyse a generator and discriminator model using convolution neural networks and assemble them as a DCGAN to generate images of Indian car models. After collecting data of multiple car images, we built a DCGAN to obtain new cars and achieved a loss of less than 0.8.

Tools used: Python, Keras, TensorFlow, Pandas.

Prediction of Obesity in Children Using Machine Learning: Worked on CDC dataset with around 3 lakh datapoints to predict if a child is obese or not in a team of 5. Built 4 models- an ensemble model combining logistic regression, Naive Bayes and random forest algorithm and achieved 97% accuracy, a K-NN model, SVM model and Neural network with 90% accuracy. Published a paper on Predicting obesity in children at NCCSTM-2019 along with my team.

Tools used: Python, Keras, TensorFlow, Pandas.

SKILLS

TECHNICAL: Keras, OpenCV, Deep learning, TensorFlow, Python, Sklearn, NumPy, Pandas

LANGUAGE: Proficient in English and Kannada

ACHIEVEMENTS

1. Qualified for research Phase-2 in Extensive Vision AI program with 92%

2. **Jury** for literature survey for the final year students at DSATM.

3. Performed at a sitar ensemble in Noida,

4. Fellow at **Bridge Student Accelerator Program for Full Stack Maker and Machine learning foundations.**

5. Conducted a 30-day internship program at DSATM on machine learning.

6. Volunteered as a teacher for machine learning workshop at **SJBIT, New Horizon college and DSATM.**

EDUCATION

Dayananda Sagar Academy of Technology and Management (DSATM), July 2015–July 2019
Bangalore — *Bachelor of Engineering in Computer Science*

CGPA: 8.26

Sri Kumaran Children's Home, August 2013–August 2015

Bangalore — *Pre-University Course (PCMB)*

Percentage: 92.3%