BALAJI BETADUR

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EDUCATION

KLS Gogte Institute of Technology, Belgaum Karnataka   2017 - 2021
Bachelor of Engineering in Computer Science   **CGPA: 9.3/10**

LANGUAGES AND SKILLS

Programming Languages : Python, Javascript, SQL, C++, HTML, CSS
Data Science, ML, DL   : Sklearn, Keras, Pandas, fastai, Neural Networks, DBMS
Web Development   : ReactJS, MongoDB, Flask, REST API, Redux, Bootstrap, ExpressJS, firebase, OAuth
Miscellaneous   : Git, VScode, AWS, Operating Systems: Linux, Windows

WORK EXPERIENCE

Quantitative Analyst and Python Developer   Jan 21 - present
Blueberry Capital, Delhi

- Designed a customizable end-to-end trading platform on cloud infrastructure that supports **multi-account and multi-broker trading** with **less than 2% latency**.
- Features like copy-trading, **AI modules to analyze trades**, trending signal generation, a backtesting engine, and **60+ business strategies boosted profits by 21%** in 9 months, making the **platform unique** from other service providers.
- The automation process saved users **20+ hours per week of manual work** and **improved execution speed by 60%**.
- Tech Stack: Python, AWS, Scikit-learn, Keras, Pandas, Neural Networks, Git, MongoDB, REST API, Jupyter Notebooks

Python Backend Intern   Sep 20 - Dec 20
Blueberry Capital, Delhi

- Collaborated with a team of 4 and automated **12 trading strategies** in multiple brokers using python in the **live stock market**.
- Strengthened the system architecture by **automating 80% of existing tasks**, including user login, taking positions in live market, trade management, data storage of **120,000+ scrips**, trade analysis, and summary generation.
- Tech Stack: Python, Heroku, Selenium, Web Scraping, Jupyter Notebook, MongoDB, Git

Computer Vision Intern   Jun 20 - Aug 20
Naaniz, Indore

- Improved image classification and object detection modules for an **AI assistant in a food delivery application**.
- Compared multiple classification algorithms and **achieved 87% accuracy in classifying 300+ dishes**.
- Deployed a **Hotel Surveillance system** to monitor cooks and verify kitchen hygiene in **35+ restaurants** using OpenCV.
- Tech Stack: Python, Heroku, Neural Networks, Keras, fastai, Pandas, GCP, Google Collab, AutoML, Git

Machine Learning Intern   Apr 20 -May 20
Conscript, MP

- Created a **learning and job portal application** in less than 30 days where both employees and employers can be users.
- Fetches the matching jobs based on the keywords from an employee's resume; based on the job description keywords, suitable profiles will be displayed to the employer using cosine similarity matching with **93% accuracy**.
- Recommends suitable courses for the employee based on the trending job openings and profile analytics with **99% accuracy**.
- Tech Stack: JavaScript, React, HTML, CSS, Bootstrap, Git, Heroku, Machine Learning, Python

PROJECTS

Creativity Index Evaluation
- Worked on **Creativity Index of text and images**, analyzed 20 different subjectivity features to find the creativity index of text.
- In images, creativity is calculated as inverse relation to the similarity index. (research project at IIT Guwahati)

Auto Model Training
- Designed a platform to train, re-train, use, and export machine learning models **irrespective of the user's technical knowledge** that helped **200+ students**. The application also provides a hyperparameter tuning feature.
- Eliminated the barrier for non-tech students from accessing the advantages of machine learning.

Covid-19 Infection Predictor
- Deployed a Machine Learning application to predict the COVID-19 infection probability using the user's symptoms, including fever, cough, body pain, and cold. Used by **1300+ people,** including the residents in the community.
- The module uses deep learning to predict lung infection with the user's x-ray images. Face-mask detection software was **installed in 3 societies** using OpenCV.

ACCOMPLISHMENTS, EXTRA-CURRICULAR AND CERTIFICATIONS

- Won second prize in **2 National Level AI hackathons held by IIT Bombay** (i. AI Email classifier, ii. Traffic sign detector)
- Achieved **six stars** on Hackerrank in **python competitive programming**.
- Won a App presentation hackathon in a TechFest held by GIT Belgaum.
- **Certifications**: AWS Cloud Practiner, Machine Learning Specialization by Stanford University, Deep Learning by Andrew Ng, Data Science Professional Certification by IBM.
- **Extra-Curricular**: Won State Level Painting Competition, Student Club Coordinator: Tech-Paper Presentation and Fine Arts.