Archisha Chandel

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Curiosity driven individual striving to find ingenious solutions to real-world problems

Educational Qualification

Year	Degree/Exam	Institute	GPA/Marks (%)
2020	B.E. in Computer Engineering	Bharati Vidyapeeth College of Engineering, Mumbai, India	8.0
2016	HSC	Khar Education Society, Mumbai, India	76.15
2014	ICSE	P.G. Garodia School, Mumbai, India	96.15

Research Topics

Data Science	Bayesian Statistics, Multivariate Statistical Analysis, Time-series Analysis (IoT and finance data), Advanced Visualisation and Pattern Recognition
Machine Learning	Regression, Bayesian, Tree-based algorithms, XGBOOST, dimensionality reduction, Generalised Linear Models and Forecasting Problems
Computer Vision	Single-Shot Learning, Object and Motion Tracking, Recommendation Systems

Conferences & Papers

1. Conference on Computer Vision and Pattern Recognition (CVPR), 2021
2. Conference on Deployable AI organized by Robert Bosch Centre for Data Science and Artificial Intelligence (2021), IIT Madras
3. Archisha Chandel, Tejal Kadam, Akanksha Dubey, Prof. Rahul Patil "AI GAME BOT" (2020) International Journal for Science and Advance Research In Technology, 6(5)
4. Archisha Chandel, Akanksha Dubey, Saurabh Dhawale, Prof. Madhuri Ghuge "Sales Prediction System using Machine Learning" Vol 2-Issue 2 (667-670) Mar-Apr 2019, International Journal of Scientific Research and Engineering Development

Experience

Tessact Pvt Ltd, India - Research Scientist   Feb'21-Present

AI and data analytics company, assisting the transformation of businesses through powerful and innovative video recognition technologies

- Discovering approaches to solve TV content compliance problem, and maintaining database and backend on AWS and internal platform
- Articulating thesis and articles on the system of models developed
- Building Smart Video Analytics, a product that redefines media production, digital advertising, consumer experience and content analytics

Achieving: A product with 60% better performance than the baseline modules and a 40% increase in the diversity and range of features provided by the analytics platform

AI Monk Labs Pvt Ltd, India - Machine Learning Engineer   Jan'21-Feb'21

Building CV-Tricks, a one-stop blog platform providing practical tips, tricks, and methods used for making world-class computer vision solutions

- Research on concepts of image classification, data imbalance in deep learning, implementation and limitations of ResNet and EfficientNet
- Articulating proof of concepts performed on real-world datasets

Achievement: Contributed to a deeper understanding of computer vision concepts and their application

Mozilla - Open-Source Contributor Experience   Feb'20-May'20

Project PRESC - Performance Robustness Evaluation for Statistical Classifiers is a toolkit for the evaluation of machine learning classification models

- Exhaustive research, experimentation and report development on model suitability and evaluation techniques
- Independent problem-solving approach emended under the guidance of industry experts

Achievement: One of the top 3 contributors during the contribution period

Tvarit GmbH, Germany - Machine Learning Engineer Dec'19-Feb'20
Provides fast and customized solutions for all manufacturing problems and data science needs. Selected through the country-wide hiring challenge organized as a part of a Winter Internship procedure
- Expanded the AI Platform through development and integration of algorithms with their unit and integration tests
- Built business value dashboards using Grafana, presented technical reports, prototyped solutions
- Writing advanced Python algorithms, pre-processing data, testing hypotheses using statistical means, and developing mathematical algorithms

Project: Prediction of ambient conditions required in a retail store depending on customer frequency to maximize profits, customer segmentation and Price Optimization
Achievement: Algorithms and dashboards developed are being run on the AI platform and successful on-time completion and delivery of all the aspects of the project

Volunteer Experience

Machine Learning Mentor, Upwork Jun'21-Present
Mentoring individuals on a one-on-one basis helping them understand Machine Learning concepts and guiding them on projects through the freelancing platform, Upwork. Use-cases solved include:
- Image classification through pattern recognition for images generated by solar flares
- Ping pong Atari game development using Reinforcement learning
- Simple and multilayer perceptron construction and its application on real-world datasets
- Time-series weather forecasting for predictive maintenance using LSTM

Achievement: I have helped 3 individuals with successful and happy learning experience

AI Mentor for Uplift Project, GirlScript Foundation Jun'20-Aug'20
A global-remote initiative for people worldwide providing a platform for like-minded individuals to meet, share and learn about topics that interest them
- Guided 15 students working on the project 'Detecting Insincere Questions on Quora'
- Discussed and conducted lectures on implementing deep learning algorithms, neural networks

Achievement: Successful project completion through acts of strong leadership, supervision, teamwork

Projects & Hackathons

License Plate Detection Dec'20
Flask application built using image processing techniques with OpenCV and tesseract to detect license plates with deployment on cloud-platform, AWS

Speech to Text Sept'20
Flask application built using PyAudio and SpeechRecognition API to transcribe audio files with application deployment on Heroku

AIDL Hackathon, Unifynd Mar'20
Worked in a team to extract information from bill/invoice (image) using deep learning algorithms, Python-tesseract for image segmentation and conversion to text with natural language processing techniques over a period of 2 days

HumAIn, Tata Consultancy Services Jul'19-Oct'19
Quarter-finalist in the national-level AI competition solving a taxonomy creation problem by StackOverflow on tag prediction

Miscellaneous

Technical Skills (languages, frameworks, concepts)	Python, Pandas, Numpy, SciPy, Matplotlib, Sci-kit learn, Git, TensorFlow, AWS Sage Maker, EDA, data collection & processing, predictive maintenance and recommendation system
Creative Softwares	Adobe Photoshop, Adobe Illustrator, Adobe Premiere Pro, Blender, ZBrush
Personal Skills (lauded by professionals)	Administrative, management and planning, communication, work ethic, perseverance, creativity, affability and enthusiasm
Interests	Fine art, Graphic Designing, Reading Fiction Novels, Baking