Aditya Kumar

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ACADEMIC QUALIFICATION

Educational Qualification	Institute/Board	Year	CPI/%
B. Tech (Computer Science and Engineering)	VIT Vellore	2021	8.2
Intermediate (CBSE)	Mayo International School, Delhi	2017	80.2%
High School (CBSE)	Delhi Public School, Indirapuram	2015	82.1%

WORK EXPERIENCE

- **MX Player, Mumbai** (*Mentor: Mr. Kumar Shivendu, HRBP*) *Mar'22-ongoing*

  Software Developer
  - Developed an E-commerce web app using Angular.js, and APIs using Node.js and Express.
  - Developed an Employee Portal using React.js.
  - Developed a Music Player application with Images gallery using Android Studio.
  - Implemented Image Classification models using Convolutional Neural Networks.
  - Implemented Classification and Regression models, using ANNs.
  - Application of Statistical models in real world problems.
  - Tech Stack – Python, Angular, React, TypeScript, JavaScript, SQL, MongoDB, Android Development, IOS Development, Machine Learning with Scikit-Learn, Deep Learning using Tensorflow and Keras.

- **Johnson Controls (I) Pvt. Ltd.** (*Mentor: Mr. Jagdish Subba Kotian, Engineering Manager*) *Feb'21-Mar'22*

  Software Engineer
  - Developed an Automatic Code Generator application using GPT3.
  - Worked with Chiller Systems team, automated the system with the help of Machine Learning Techniques.
  - Automated various flows, using Power Automate.
  - Implemented various Computer Vision Applications, Face Mask Detection, Face Recognition and Face Emotion Detection using OpenCV library.
  - Integrated RASA NLU engine and LUIS with a chatbot built using Microsoft Bot Framework.
  - Implemented Student Examination Portal using Angular.js and deployed to Microsoft Azure.
  - Developed a chat bot using Microsoft Bot Framework along with RASA for backend NLU.
  - Implemented various ML and Deep Learning models using scikit-learn, Tensorflow, Keras, and served as an API using Flask.
  - Tech Stack - Python, Angular, Flask, Django, Bootstrap, OpenCV, Scikit learn, TensorFlow, Microsoft Bot Framework, C#, Azure Cloud Platform, Power Automate, Adaptive Cards.

- **CyberCure Technologies, Delhi** *(Mentor: Mr. Sangeet Chopra, Chief Executive Officer)* *April'19-Jun'19*

  Internship (Machine Learning and Deep Learning)
  - Developed a Face Recognition Based Attendance System.
  - Operations which we can perform using this system- Take Images, Train Images, Mark Attendance and finally generate the report.
  - The Attendance System has proved to be a very efficient solution in the COVID-19 pandemic.
  - Tech Stack – Machine Learning using Scikit-learn, Deep Learning using Tensorflow and Keras, Flask Web Framework, MySQL, PHP, Bootstrap, Python.

TECHNICAL SKILLS

- **Programming/Scripting Languages**: C | C++ | Swift | Python | Java |C#|JavaScript
- **Web frameworks** - Django, Flask, React, Angular, ASP.NET.
- **Cloud Computing Platforms** - Microsoft Azure, Heroku.
- **Skills/Interests** - JavaScript, HTML, CSS, Git, SQL, Docker, Node.js, Microsoft Bot Framework, Machine Learning, Deep Learning, Computer Vision, NLP.

PUBLICATION

- **Australian Bushfire Detection Using Machine Learning and Neural Networks, IEEE (09/2020 - Present)**
  - In this paper, we have generated fire detection and classification models using multilayer perceptron algorithm and K-Nearest Neighbor algorithm and compared them with each other. The Multilayer perceptron algorithm has the highest accuracy with 99.96%.
  - Data mining and machine learning techniques can help to anticipate and quickly detect fires and take immediate action to minimize the damage.
  - Results from the Kaggle dataset infer that our ANN-MLP algorithm (Multilayer Perceptron) yields better performance by calculating confusion matrix that in turn helps us to calculate performance measure as Detection Rate Accuracy.

MAJOR PROJECTS

- **Weather application using Python.**
  - A weather app in Django, it shows current weathers in multiple cities. I have used Python Requests to call the Open Weather Map API.

- Tools- Django, Bootstrap, Python.

- **Face Recognition Based Attendance System**
- Operations which we can perform using this system- Take Images, Train Images, Mark Attendance and finally generate the report.
- Face detection with Haar Cascade Classifier.
- Tools- Flask, MySQL, Bootstrap, OpenCV.

- **Code Generator using GPT3**
- An automatic code generating application, which will enable a user to generate code with just one click.
- Automate tasks that require language understanding and technical sophistication.
- Tools used - GPT3, Flask, Python.

- **E-Commerce Application using Django**
- The application has a Login and Sign-Up page.
- The application consists of four pages – Home, About Us, Contact and Feedback Page.
- View various food products and add to the cart.
- Tools – Django, Python, Bootstrap, SQL.