AKASH G

AI Researcher

https://akashsuper2000.github.io

OBJECTIVE

- Seeking the role of an entry-level researcher in a competitive yet supportive environment that encourages learning and innovation

ABOUT ME

- I'm an avid learner and I enjoy solving problems. I specialize in machine learning and web development and everything in tech!
- I'm the type of person who constantly strives to learn new things, explore stuff and solve challenging problems everyday.
- I am most productive in a highly challenging and competitive environment with a goal to solve problems in an innovative way.

CONTACT

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WORK EXPERIENCE

Summer Intern

Chennai, May 2019

- Build and develop ML models for image recognition
- Automate various tasks across the company using python and bash
- Assist senior developers with continuous integration and deployment

ACADEMIC BACKGROUND

Undergraduate in B.Tech Computer Science

Amrita School Of Engineering 2017 - 2021

- GPA: 9.3/10
- CSI, T{Know} and ASCII club member
- Technical events coordinator and problem setter

Higher Secondary Education (PCM+CS)

Amrita Vidyalayam, CBSE, Graduated 2017

- Percentage: 93%
- School topper in physics
- Distinction in overall academic performance

Secondary Education

Amrita Vidyalayam, CBSE, Graduated 2015

- Percentage: 90%
- Distinction in overall academic performance

TECHNICAL SKILLS

- NLP and Computer Vision
- Pen-testing at CTF level
- Competitive Programming
- Design and Optimization of Algorithms
- Full stack Web Development
- React, Node.js, Flask
- Database Design and Management
- Cloud Deployment and Maintenance

LANGUAGES

- **English**: Full working proficiency
- **Hindi**: Limited proficiency
- **Tamil**: Native language
- **Sanskrit**: Limited proficiency

WEB PROFILES

- **Hackerrank:** 3 Gold badges and 3 Silver badges
  https://hackerrank.com/akashsuper2000
- **CodeChef**: Max rating - 1900. Global Rank - 2000.
  https://codechef.com/users/akash2000coder
- **CodeForces**: Max Rating: 1604
  https://codeforces.com/profile/akash2000
- **Kaggle**: Competitions Expert
  https://www.kaggle.com/akashsuper2000
- **CTFTime**: Team **exploit_it**: Below 100 Nationally
  https://ctftime.org/team/82868

HACKATHONS

- IIIT-H Hackathon 2017
- Hacktoberfest 2018
- Hactoberfest 2019
- SLAC Honeywell Hackathon 2019

CERTIFICATIONS

- Machine Learning Certification from Stanford University through Coursera
- Deep Learning Specialization Certification from Deeplearning.ai
- Hackerrank Problem Solving, Python, Javascript, React, RESTAPI, Java certifications

ACCOMPLISHMENTS

- **Hashcode 2019 and 2020**

  Ranked 1845 and 2374 respectively of 30K+ participants

- **CSI programming contest**

  Ranked top 100 and received full scholarship for annual convention

- **ACM ICPC 2018 and 2019**

  Ranked 500 nationally consecutively out of 20K+ participants

- **Hacktoberfest 2018 and 2019**

  Contributed to open-source

- **Kaggle ARC challenge**

  Ranked 86 of 1K+ participants and secured bronze

- **Kaggle Ion switching challenge**

  Ranked 147 of 2K+ participants and secured bronze

- **Kaggle Tweet sentiment extraction challenge**

  Ranked 310 of 3K+ participants

- **COVID global forecasting competition**

  Ranked in top 10% consecutively for 5 weeks

- **CTFTime Team ranking**

  Ranked top 100 nationally for the year 2019 and 2020

- **CodeJam**
  Qualified through first round of codejam 2019 and 2020

- **IIIT-H Hackathon**
  Participated and build a multiplayer game in C#

- **SLAC Honeywell Hackathon**
  Participated and built an AI model to predict pick time in warehouses

- **Kaggle M5 Forecasting**
  Ranked top 10% in Accuracy and Uncertainty and secured bronze

- **Connect X competition**
  Built an agent that consistently placed in top 10%

- **Halite competition**
  Built a greedy agent that placed in top 20%

- **AI Adept**
  Hosted a machine learning competition during the techfest 2020

- **Figure 'em all**
  Hosted a challenging multi-domain competition for the techfest 2020

PUBLICATIONS

Toxic Comment Classification using Transformers

Jul 2020 – Present (In Progress)

- A research paper highlighting the benefits and performance of transformer architecture for classifying comments based on toxicity.
- Includes detailed analysis and comparison on various traditional NLP models on a standard dataset.
- Nearing completion with expected publishing date before Dec 2020.

PROJECTS

Malware Detection

Jul 2019 – Oct 2019

- This project involves building and developing a ML model for automatically detecting if a website contains any malicious content.
- Result: an ensemble with SVM and RandomForest classifiers

Detecting Text Based Image Using OCR For Translation

Jul 2018 – Dec 2018

- This project is in association with Deep Learning Lab of Amrita University.
- This project is about applying OCR to extract texts from an image which then gets translated to a different language of choice.
- It is achieved through the use of various deep learning and computer vision techniques.

License Plate Detection

Aug 2018 – Dec 2018

- This project is about detecting license plates from a real-time video feed and extracting the license numbers from it.
- Implementation: Detection of the plate, segmentation of characters, OCR on the characters.