K KUSHAL

B.Tech Computer Science Engineering
Amrita Vishwa Vidyapeetham, Bangalore

+91-7337008641
send2kushal@gmail.com
github.com/Kushal2004
linkedin.com/in/k-kushal

SUMMARY

I'm Kushal, a dedicated Computer Science student with a focused commitment to enhancing digital security and Full stack Development. I'm proficient in web exploitation, web development, software engineering, and data science. My primary passion lies in web development and web exploitation. I've had the privilege of presenting my research at multiple conferences and achieving top honors at various hackathons and CTFs.

EDUCATION

- **Amrita Vishwa Vidyapeetham (AVV), Bangalore - B-Tech Major (CSE)** | 2021-Present
  CGPA 8.89(Current)
- **Kendriya Vidyalaya (CBSE Board) - Senior Secondary** | 2021
  96.0%
- **Kendriya Vidyalaya (CBSE Board) - Secondary** | 2019
  86.5%

SKILLS

- **Programming Languages:** Java, Python
- **Web Development:** HTML, CSS, JavaScript , Bootstrap ,tailwindCSS, Express , NodeJS , Sequelize ,ReactJs
- **Data Science :** Numpy , Pandas ,Matplot ,
- **Databases:** MySql, Oracle, MongoDB
- **OS and Tools:** Windows , Linux ,VS Code, Git, BurpSuite , Rustscan , Dirbuster, AWS
- **Soft Skills:** Communication, Leadership, Mentorship, Collaboration, Agile

PROJECTS

Personal Blog Website and Portfolio | July 2024
TECH STACK - ASTRO, REACT, TYPESCRIPT, TAILWIND CSS ,NODE JS

- **100% Responsive Design**: Implementing both light and dark themes using Tailwind CSS utilities.
- Developed and deployed **20+ interactive React components**, such as forms, cards, and modals, enhancing user engagement and reducing form abandonment rate by 25%
- Added features such as Search, **Comments**, Pagination, Tags, RSS Feed, Markdown Files, **SEO Tags** etc.

Attendance Automation Using Facial Detection and Facial Recognition | Publishment : ICDMMESD 2024
TECH STACK -Python, Flask ,MTCNN , FaceNet

- Engineered a robust facial recognition model, achieving **88% accuracy,** resilient to diverse facial expressions, poses, and lighting conditions; validated with a custom dataset comprising videos of 60 different individuals, each yielding approximately **500 photos per person**
- Quick inference times, processing most samples in **under 50ms**, suitable for real-time attendance tracking.

Collaborative Note Management System-WebApp | October 2023, Github
TECH STACK - MERN STACK

- Architected and launched a dynamic note management platform with React.js and Node.js; streamlined information sharing and improved cross-departmental collaboration
- The system allows users to create, edit, and manage notes, with **role-based access** control, ensuring a **secure JWT Auth** and efficient workflow

ACHIEVEMENTS AND CERTIFICATES

- **Ranked No.1** in India and **26th Internationally** – CTFtime
- **10th Rank** in Pearl CTF – 2024
- Won **1st Rank** in Secured Code Warriors Hackathon.
- **7th Rank** in GREP CTF International by BITS Pillani.
- Published **4+** Conference Papers,Book Chapters.
- **15+ Projects and Blogs**

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- **OS and Tools:** Windows , Linux ,Git, BurpSuite , Rustscan , Dirbuster, AWS

- **Communication:** honed through presentations
- **Leadership:** Demonstrated as project lead
- Mentorship
- Problem-solving
- Collaboration
- Attention to Detail

PROJECTS

Attendance Automation Using Facial Detection and Facial Recognition | Publishment : ICDMMESD 2024
TECH STACK -Python, Flask ,MTCNN , FaceNet

- Achieved an accuracy of around **80%** by the end of the training process
- Quick inference times, processing most samples in under **50ms**, suitable for real-time attendance tracking .
- The model demonstrated resilience to diverse facial expressions, poses, and lighting conditions.
- Utilized a custom dataset comprising videos of 60 different individuals, each yielding approximately 500 photos per person, ensuring a comprehensive training set for accurate recognition .

Exploring Image Captioning Training Methods and Performance Metrics in Deep Learning | February 2024
TECH STACK -CNN-LSTM, CNN-GRU, XCEPTION, YOLO V4, GIT

- **Publishment : IEEE 9th I2CT INDIA**
- Conducted a comprehensive study on image captioning techniques utilizing deep learning methodologies.
- Explored models such as CNN-LSTM and Xception – YOLO v4 for image captioning tasks.
- Utilized performance metrics including BLEU, METEOR, ROUGE-L, and SPICE for thorough analysis of model performance.

Collaborative Note Management System-WebApp | October 2023, Github
TECH STACK - MERN STACK

- Designed and implemented a collaborative note management system using React.js and Node.js.
- The system allows users to create, edit, and manage notes, with role-based access control, ensuring a secure and efficient workflow.

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