KAUSHIK DAS

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SUMMARY

As a Master's student in Artificial Intelligence at the University of Aberdeen, I've cultivated expertise in machine learning, natural language generation, and related domains. Proficient in various programming languages, including Python, I have hands-on experience in software development and database management. My academic journey also includes a Bachelor's degree in Electronics and Communication Engineering, where I honed technical skills such as MATLAB, VHDL, and hardware assembly.
In addition to my educational background, I've completed internships in Core Java with Android and Communication Systems at BSNL, gaining valuable practical insights.
I am actively seeking an internship in software development or related fields, where I can apply my extensive technical skills, including analysis, CSS, data science, deep learning, Django, HTML5, JavaScript, machine learning, Python, and TensorFlow. My goal is to contribute effectively and gain further practical experience in a professional environment.

EDUCATION

Master of Science in Artificial Intelligence
University of Aberdeen · Aberdeen, UK · 2024

Bachelor of Technology in Electronics and Communications
Institute of Engineering and Management · Kolkata, India · 2019

EXPERIENCE

SYSTEM & DATABASE ENGINEER
Accounting Company **July 2019 - December 2022, Kolkata**
· As a System and Database Engineer at the company, I actively maintained and optimized the organization's computer systems and servers, ensuring their smooth operation and efficiency. My responsibilities extended to database administration, where I designed database structures, enforced security protocols, and managed data backups to preserve data integrity and accessibility.
· I provided hands-on technical support by diagnosing system and database issues, identified root causes, and swiftly implemented solutions to minimize downtime. I vigilantly managed security, enforcing access controls, monitoring security breaches, and ensuring compliance with data protection regulations.
· I regularly monitored performance and proactively optimized systems, involving the identification of bottlenecks and implementation of necessary changes for optimal performance. I established and executed robust backup and recovery plans to safeguard critical data and maintained comprehensive documentation to facilitate knowledge sharing.
· My role entailed close collaboration with cross-functional teams, and I remained at the forefront of emerging technologies, assessing and implementing improvements aligned with the company's goals to ensure the efficient operation of the IT infrastructure.

INTERN
Bharat Sanchar Nigam Limited **June 2018 - July 2018, KOLKATA**
· I actively participated in a comprehensive Communication Systems training program at BSNL (Bharat Sanchar Nigam Limited). During this intensive training, I delved into the core principles of communication technology, gaining a deep understanding of its intricacies. Additionally, I acquired proficiency in various network protocols and their applications in telecommunications.

Intern
RCPL (HP), Kolkata **January 2018 - February 2018, KOlKATA**
· I interned in Core Java with Android, actively engaging in hands-on experience. This role involved designing and implementing Android applications using Java as the primary programming language. Throughout the internship, I collaborated with a team of experienced developers, acquiring and applying Java programming principles, object-oriented concepts, and data structures. This immersive experience strengthened my skills and knowledge in Android app development while allowing me to absorb industry best practices and practical insights into mobile app development on the Android platform.

PROJECTS

Wiener Filter for Removal of Levy Noise from Signals
Institute of engineering and management · September 2018 - April 2019
· Our project centered on utilising Wiener filtering, originally developed to combat Levy noise in signals and enhance images. We aimed to strike an optimal balance between inverse filtering and noise smoothing, minimising the mean square error. We began by comprehending the challenge of restoring images marred by Levy noise. We then expertly implemented the Wiener filtering algorithm, carefully tuning parameters such as the signal-to-noise ratio to achieve the desired equilibrium between noise reduction and image detail preservation. Rigorous evaluation using metrics like PSNR and SSIM validated our approach. Documentation of our work ensured reproducibility and offered insights for others to understand and build upon our successful restoration of high-quality images.

Elimination of Higher Order Modes in Wearable Micro strip Antenna(IEEE)
British Columbia Institute of Technology, Canada & Institute of Engineering & Management Kolkata, India · May 2016 - November 2016
· Abstract: This study presents a method for reducing higher-order harmonic modes of the fundamental operating frequency in a wearable microstrip antenna. The approach involves actively integrating a simple I-shaped resonator into the microstrip feed line, thereby effectively controlling harmonics in the antenna's operation. As a result, this technique successfully suppresses higher-order modes that occur between the fundamental resonating frequency and the second harmonics of the wearable microstrip antenna, ultimately enhancing its overall performance and mitigating interference.

CERTIFICATIONS

Machine Learning with Python
Coursera

SKILLS

Analysis skills, CSS, Data science, Deep learning, Django, HTML5, JavaScript, Machine learning, Python, TensorFlow