Contact

yubrajjungshah@gmail.com

www.linkedin.com/in/yubraj-jung-shah-a66b1113a (LinkedIn)

Top Skills

Statistics

Problem Solving

Databases

Certifications

Learning Python

Python for Data Science

Data Analysis Using Python

Publications

Selective Frame Analysis for Efficient Object Tracking: Balancing Speed with Accuracy in MOT Systems.

Yubraj Jung Shah

Computer vision, Machine learning, Deep learning Researcher and Academics Tutor

Hurstville, New South Wales, Australia

Summary

I am highly skilled and devoted professional with over 10 years of experience across numerous sectors, I am passionate about achieving excellence in all aspects of my work. At Western Sydney University, I currently teach students on how to build big data apps using cutting-edge tools like Python, Hadoop, and Spark. Additionally, I'm pursuing a Doctorate degree in which I am working for development of cutting edge image detection algorithm for autonomous driving.

Experience

Western Sydney University
4 years 9 months

Academic
February 2023 - Present (2 years 6 months)
Parramatta, New South Wales, Australia

Teach students how to use Python, Hadoop, and Spark for big data development.

Work together with other teachers and professors to provide high-quality instruction.

Adapt to new Big Data technologies and use them in teaching materials.

Reinforce programming concepts and principles, create practical activities and projects for students.

Give each student specific feedback on their programming and development.

PHD Candidate
November 2020 - Present (4 years 9 months)
Parramatta, New South Wales, Australia

Dedicated PhD candidate working to find a solution to the autonomous vehicle issue.

Examining and putting into practise cutting-edge computer vision methods to enhance image identification algorithms.

Possesses strong analytical skills, the ability to solve problems, and programming and data analysis knowledge.

Devoted to staying current with developments in the field of autonomous vehicles and related technology.

Looking for joint ventures to create innovative automotive industry solutions.

Casual Systems Assistant
August 2021 - December 2021 (5 months)
Parramatta, New South Wales, Australia

Designed and created features for a custom software solution using Python to make sure the product complied with client requirements,.

Developed custom reports and visualisations using SQL, optimised queries, and created and managed SQL databases.

The software solution was integrated with Excel spreadsheets, and Excel macros were created to automate data processing processes.

Worked closely with the customer to comprehend their needs, and provide end users training and support.

Maintained software solution for problems and promptly fixed them while performing routine maintenance chores to guarantee stability and security.

Pegatron Service Australia Pty Ltd
Mechanical Engineering Intern
March 2020 - May 2020 (3 months)
Sydney, New South Wales, Australia

Confer with engineers and other personnel to implement operating procedures.

Resolve system malfunctions, and provide technical information.

Prepared weekly progress report to evaluate the performance and keep track on accomplishments.

Used ERS system to keep track of the product in the production line.

Investigate equipment failures and difficulties to diagnose faulty operation.

Design test control apparatus and equipment and develop procedures for testing products.

Summit Air Pvt Ltd.
Maintenance Planning Engineer
June 2014 - May 2016 (2 years)
Nepal

Undertook daily monitoring of the maintenance schedule.

Checked regularly for the service bulletins, Airworthiness Directives, etc. and ensuring compliance.

Prepared detail work specification and issue Maintenance Job Order.

Overseen the preparation of aircraft maintenance logbook statement.

Assisted senior engineer in the maintenance of an aircraft.

Contacted component suppliers and negotiate, also place the purchase as required.

Hillside College of Engineering
Teaching Assistant
January 2015 - October 2015 (10 months)
Nepal

Delivered scheduled lectures to sophomore and freshman students.

Collected educational information and taught to students during classes.

Conveyed subject matter and lecture to the students in a creative way.

Evaluated the students individually to identify areas of difficulties.

Advanced College of Engineering & Management
Teaching Assistant
January 2015 - October 2015 (10 months)
Nepal

Instructed up to 100 bachelor and associate degree level students in four sections per semester.

Mentor students developing individualized academic action plans in coordination with department head as needed.

Led small-group tutorials for advanced students as warranted.

Goma Airlines
Internship Trainee
April 2013 - January 2014 (10 months)
Nepal

Transferred the detail from Aircraft Flight Log (AFL) to the record book.

Calculated the total flight hour, total landings and compare it with AFL.

Updated the component log book as per the AFL or as per Maintenance Job order.

Attended the training classes as per the company rules and regulations.

Royal Nepal Airlines
Industrial Training
May 2012 - June 2012 (2 months)
Nepal

Three week Internship volunteer service as a technician for Nepal Airlines Corporation in Maintenance Division (T.I.A) in which I gained experience on

DHC-6/300 aircraft in Airframe & Engine Trade from 31st May to 21st June 2011.

———

Education

Western Sydney University
Doctor of Philosophy - PhD, Mathematics and Computer Science · (October 2020 - March 2025)

Heubert
Full Stack Development, Information Technology · (July 2021 - December 2021)

Navitas Professional
Certificate IV Business , Business and Social Skills · (2019 - 2020)

University of Wollongong
Master's degree, Mechanical Engineering · (2016 - 2018)

Karpagam Academy of Higher Education, Coimbatore
Bachelor's degree, Aerospace, Aeronautical and Astronautical Engineering · (2009 - 2013)