

# AYUSH SRIVASTAVA

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## EDUCATION

<b>Bachelor of Technology</b> , Mechanical Engineering Indian Institute of Technology, Kharagpur	<b>Jul 2017 - Jul 2021</b> GPA: 8.95/10.00
<b>All India Senior Secondary Certificate Examination</b> , Computer Science Kendriya Vidyalaya No. - 1, Ishapore	<b>Jun 2015 - Jun 2017</b> Percentage: 93.2

## EXPERIENCE

<b>Senior Software Engineer   Parspec (India) Private Limited</b>	<b>Aug 2022 - Present</b>
<ul style="list-style-type: none"><li>Active contributor to the rapid technological expansion of an AI-powered submittal application for clients in the US construction sector, achieving an annual revenue exceeding \$500k.</li><li>Involved as a senior backend engineer in the end-to-end automation of submittal creation flow for users, enabling the discovery and sourcing of the best available construction products as per requirements.</li><li>Individually responsible for rolling out the December 2022 update of the application, enabling multiple location support under a parent organization with separate subscriptions, leading to a 50% surge in user engagement.</li><li>Contributed to the development of all major features, including setting up an elastic database and an interface for users to search for lighting products by their manufacturer and technical specifications.</li><li>Currently involved in dockerization and load scaling of the application for extended user base support and in the development of a separate app for real-time product recommendation.</li></ul>	
<b>Software Engineer - II   Honeywell Technology Solutions Lab</b>	<b>Jul 2021 - Jul 2022</b>
<ul style="list-style-type: none"><li>Developed and maintained an agile in-house PaaS tool with multi-framework support to cater to DevSecOps automation across the organization.</li><li>Led user feedback-driven software development, resolving technical queries, and orchestrated insightful DevSecOps education events such as Honeywell Jumpstart.</li><li>Seamlessly integrated Azure-driven Managed IaC with the PaaS tool, optimizing infrastructure management and reducing costs for various business groups.</li><li>Engineered the integration of the Locust framework for event-driven load testing in all the Python-enabled templates made available for the users.</li><li>Orchestrated the design and development of a Data Science automation pipeline enabling an ML model hosted on Databricks to be deployed end-to-end via RedHat Openshift.</li></ul>	
<b>Deep Learning Engineer   CogniAble - IIT Delhi</b>	<b>Oct 2020 - Feb 2021</b>
<ul style="list-style-type: none"><li>Developed a Computer Vision model to automate the early screening and evaluation of children with Autism disorder.</li><li>Performed human action recognition over real time video feeds using a deep CNN achieving 60% validation accuracy.</li><li>Provided end-to-end software solutions for handling and processing big data in cloud services like AWS and Azure.</li></ul>	
<b>Visiting Artificial Intelligence Researcher   deepkapha.ai</b>	<b>Aug 2020 - Sep 2020</b>
<ul style="list-style-type: none"><li>Qualified deepkapha.ai's July 2020 data science hackathon to work on a petroleum based deep learning project – PETAI.</li><li>Developed an unsupervised Deep Domain Adaptation architecture, EarthAdaptNet for seismic image classification.</li><li>The model classifies a Target Domain image based on its CORrelation ALignment with a Source Domain image.</li></ul>	

## PROJECTS

<b>Autonomous Underwater Vehicle   Prof. C. S. Kumar   IIT Kharagpur</b>
<ul style="list-style-type: none"><li>Deployed a Mobilenet - SSD deep learning architecture for real-time object detection in an unmanned vehicle.</li><li>Implemented color segmentation using a Gaussian Mixture Model (GMM) with Kalman Filter for underwater tracking.</li><li>Robust detection and tracking in reduced computational time allowed real-time tracking rate of 25-30 fps.</li></ul>
<b>Aircraft Maintenance Scheduling   Prof. M. K. Tiwari   NITIE Mumbai</b>
<ul style="list-style-type: none"><li>Worked on an Engineering Optimization problem to reduce underutilization of workers for a leading Airlines corporation.</li><li>Integer Linear Programming model for allocating individual workers to aircrafts for maintenance based on man hours.</li><li>Effectively predicted a 40% reduction in team size across 3 certifications for an airbase based on posterior demand.</li></ul>

## AWARDS AND ACHIEVEMENTS

- Employee of the month in Parspec from Dec 2022 to March 2023 for contributing to the maximum number of updates.
- Received SPOT recognition in Honeywell DevSecOps for solving the maximum number of technical queries from users.
- Among the top 5% of 1400 freshmen in 2017 at IIT Kharagpur to obtain a department change with a CGPA of 9.24/10.
- Awarded the B.Stat Fellowship in 2017 from the Indian Statistical Institute (ISI), Kolkata, among the top 1% of applicants.

## SKILLS

**Programming Languages:** Python, C++, C#, GoLang, MATLAB, SQL, R, Java, Powershell  
**Software Frameworks:** Django, OPenCV, PyTorch, TensorFlow, Docker, Coverity, Grafana, FastAPI  
**Infrastructure/Cloud Platforms:** AWS, Azure, GCP, Kubernetes, Ansible, Jenkins, Terraform