Company :	Vimaan Robotics India Private Limited
Company Name :	Vimaan Robotics India Private Limited
Nature Of Business :	Warheouse Inventory Automation using Robotics
Designation :	Software Engineer - Computer Vision
Tentative Job Location :	Bangalore

Description :

ABOUT VIMAAN:

We're Vimaan Robotics, an early-stage Silicon Valley startup. We solve challenging problems with our breakthrough drone technology. We're still in stealth, but we're funded by blue-chip investors, and have a dynamite team in both US and India. This is an opportunity to be part of the executive team and among the first employees of an immense opportunity.

We're enabling a paradigm shift in the way drones are developed, deployed, scaled, and leveraged in everyday commerce. Our proprietary solution enables full autonomy and scalability, and we plan to offer a full-service IaaS/SaaS model, generating rich, actionable data to commercial and enterprise customers. Our target markets extend across a vast swath of commercial applications—including security, construction, sports, warehouse management, manufacturing logistics, and law enforcement. Our founders have a track record of founding multiple companies.

INDIA R&D CENTER:

Vimaan Robotics has opened an India R&D center in Bengaluru. We're building up a team with a critical mass on the hardware and software systems side. We've started with a team of incredibly talented and passionate individuals and are looking to build on that quality.

TEAM CHARTER:

The team in India will be responsible for a multitude of functions including, but not limited to the following:
1. Develop models and algorithms using Deep Learning and Computer Vision on the captured data to provide meaningful analysis to our customers.
2. Some of the projects include - object recognition, OCR, barcode scanning, stereovision, SLAM, 3D-reconstruction, etc.
3. Develop integrated embedded systems for our drones – including embedded system platform development, camera, and sensor integration, flight controller, and motor control system development, etc.
4. Architect and develop full-stack software to interface between our solution and customer database and access – including database development, API development, UI/UX, storage, security, and processing for data acquired by the drone.
5. Integration and testing of various off the shelf sensors and other modules with the drone and related software.
6. Develop algorithms related to autonomy and flight controls.

POSITION DETAILS:
Location: Bengaluru.
Reports to: India Site Computer Vision Team Head
Timeframe: June 2021

Requirement:
Deep-learning engineer with hands-on experience.

Responsibilities:
1. Identify and train models which satisfy accuracy, speed and robustness benchmarks.
2. Optimize inference & training time on embedded systems as well as server machines.
3. Data curation; observing and analysing data to prepare representative and diverse training and evaluation sets.
4. Verify generalizability of built models by testing on a diverse eval-set.
5. Data clean-up; ensure the fidelity of ground truth by sampling annotations and building tools to automate such processes.
6. Coordinate and manage in-house annotation team to lay out the guidelines for labelling ground truth.
7. Work closely with other teams - autonomous flight and the flight operations team to understand environment and challenges and build corresponding models.

Qualifications:
The ideal candidate has the following attributes:
• Sound knowledge and hands-on experience on the following is a must:
o Data structures and algorithms
o Machine learning and Deep learning
o Probability, Statistics and Linear Algebra
o Familiarity with open source frameworks such as OpenCV, TensorFlow, Caffe, PyTorch, Keras etc.
• Enjoy the challenge of building a neural network from scratch.
• The ability to pick the right framework and network for the task at hand.
• Proficient with curation of data – separation of development and test data, data augmentation techniques.
• Proficient in Python.
• Experience with open-source version control system is a plus.
• Deeply hands on coder, capable of writing code and debugging systems.
• Ability to work in a fast paced, high pressure startup environment and adapt to rapidly changing requirements.

Please note that this is not a data scientist job. We are looking for individuals who have implemented ML/DL in the computer vision domain.

Program	AE	BSBE	CE	CHE	CSE	EE	ES	ME	MSE	PHY	CHM	MTH	ECO	DES	IME	CGS	HSS	EEM	MSP	NET	PSE	Stats
BT	No	No	No	No	Yes	Yes	--	No	No	--	--	--	--	--	--	--	--	--	--	--	--	--
BS	--	--	--	--	--	--	No	--	--	No	No	Yes	No	--	--	--	--	--	--	--	--	--
MT	No	No	No	No	Yes	Yes	No	No	No	--	--	--	--	--	No	--	--	No	No	No	No	--

Eligibilty :

DoubleMajor	No	No	No	No	Yes	Yes	--	No	No	No	No	Yes	No	--	--	--	--	--	--	--	--	--
dual	No	No	No	No	Yes	Yes	No	No	No	No	No	Yes	No	--	--	--	--	--	--	--	--	--
dualB	No	No	No	No	Yes	Yes	--	No	No	No	No	Yes	No	--	No	--	--	No	--	No	No	--
dualC	No	No	No	No	Yes	Yes	No	No	No	No	No	Yes	No	No	No	--	--	--	--	--	--	--
Mdes	--	--	--	--	--	--	--	--	--	--	--	--	--	No	--	--	--	--	--	--	--	--
MBA	--	--	--	--	--	--	--	--	--	--	--	--	--	No	--	--	--	--	--	--	--	--
Phd	No	No	No	No	Yes	Yes	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No	Yes
MSc	--	--	--	--	--	--	--	--	No	No	Yes	--	--	--	--	--	--	--	--	--	Yes	
MSR	No	No	No	No	Yes	Yes	--	No	No	--	--	--	--	--	--	No	--	--	--	--	No	--

Cost to Company : 20lpa

Package Details :

Sr.no.	Item	Annual	Monthly
1	Basic Salary	1,000,000.00	83,333
2	House Rent Allowance	400,000.00	33,333
3	Transport Allowance	-	-
4	Special Allowance	480,000.00	40,000
5	Provident Fund	120,000.00	10,000
Total	Gross Salary	2,000,000.00	166,666

Variable Components

6	Gratuity	48,077.00
7	Medical and accident insurance	18,653.00
8	Life insurance	1,912.00
9	Variable Component 3	
Total	CTC	2,068,642.00

Bond : False

CPI CutOff : 10.1

Medical Requirments :

Resume Shortlist : True

Resume Shortlist Criteria: Relevant Knowledge and CPI

Aptitude Test: False

Group Discussion: False

Technical Test: True

Technical Test Duration: 45 min

Technical Interview: True

Technical Interview Duration: 45 min

Number of Techincal Interview Rounds: 3

HR Interview: False

Additional Information: