**Task 1**

**How to make mobile app(android and ios) using python and Why use this?**

**First thing using to build mobile app which Framework will use**

1. **Kivy :-**
2. **It is open source framework and it is known as flexibility and is suitable**
3. **It provides a natural user interface and it work in (macOS, Android, Linux, IOS, Windows)**
4. **Kivy is a great choice for apps that require unique and customized user interfaces.**

1. **PYQT4/5 :-**
2. **PyQt4/5 is one of the most popular Python bindings for the Qt cross-platform C++ framework**
3. **PyQt4/5 can be used for both desktop and mobile app development.**

**Compare between Kivy and pyQT4/5**

**PyQt is probably best there is when you have an application that has to use system services and hardware. Kivy is smaller and can be handy when you want to make something simpler and add some custom styles.**

**Why Using Python to build mobile app?**

**Because it is Cross Platform, Ease of Learning and Readability,** **Support for GUI Development and Open source**

**Task 2**

**How to Make Variable Constant in Python?**

**To make Variable Constant in Python The programmer depend on Make the Variable Name All word with Capital Letter and if it have two words Separate By UnderScores ( \_ ) This is the principle of programmers**

**Example (MY\_CONSTANT = 3.14)**

**And Another Way it using a tuple that make the value const and if you want to change this value you found an error**

**Task 3**

**Which Company work with AI And what doing By AI in Egypt?**

|  |  |
| --- | --- |
| **Company** | **Domain** |
| [**3sixtydental**](https://3sixtydental.com/) | **Computer Guided Surgery, Medical Imaging** |
| [**ABM Egypt**](http://abmegypt.net/) | **NLP, Social Media analytics, Search Engine optimization** |
| [**Adam.ai**](https://adam.ai/) | **NLP, machine learning, embedded systems** |
| [**Advanced Intelligent Technologies**](https://advintic.com/) | **Machine Learning, Deep Learning** |
| [**Advansy ESC**](https://www.advansys-esc.com/) | **Embedded Software, Big data, IoT** |
| [**Affectiva**](https://www.affectiva.com/) | **Machine learning, Deep learning, Computer vision, Speech(new project(s))** |
| [**Agolo**](https://www.agolo.com/) | **NLP, ML, DL** |
| [**Aimtechnologies**](https://www.aimtechnologies.co/) | **Data Science, Machine Learning** |
| [**Arqamfc**](https://www.arqamfc.com/) | **Analytics** |
| [**Asas Alqarar**](http://asasalqarar.com/) | **Machine Learning, Deep Learning** |
| [**Atomica**](https://atomica.ai/) | **Machine Learning, Computer Vision** |
| [**Ave labs**](https://www.avelabs.com/) | **Deep learning, Machine learning techniques, Computer vision, Image Processing and Signal Processing, Control theory & Artificial Intelligence** |
| [**AvidBeam**](https://www.avidbeam.com/) | **Machine learning, OCR, Computer vision, DL** |
| [**BBI-Consultancy**](http://www.bbi-consultancy.com/) | **Data Science** |
| [**Bee Smart Payment Solutions**](https://bee.com.eg/en/) | **ML, Big Data** |
| [**blnk.ai**](https://www.blnk.ai/) | **Machine Learning** |
| [**Botitapp**](https://botitapp.com/) | **Data Science, NLP** |
| [**Bosta**](https://www.bosta.co/) | **Data Analytics, Data Science** |
| [**Botme**](https://www.botme.com/) | **Chatbots, NLP** |
| [**Brightskies**](https://brightskiesinc.com/) | **Machine Learning, Autonomous Driving** |
| [**Cammedar Health**](http://cammedar.com/) | **Machine Learning** |
| [**Cassbana**](https://www.cassbana.com/) | **Machine Learning, Deep Learning** |
| [**Cequens**](https://www.cequens.com/) | **Predictive models, Machine Learning, Chatbots** |
| [**Cognitev**](https://cognitev.com/) | **ML, DL, Recommendation systems, IR (Information Retrieval), NLP (Natural - Language Processing)** |
| [**Comiot**](https://www.com-iot.com/) | **Iot, Computer vision, ML** |
| [**Converted.in**](https://www.converted.in/) | **Machine Learning** |
| [**Crowd Analyzer**](https://www.crowdanalyzer.com/) | **Big data, Machine learning, Social Media Analysis, Arabic in Social Media Analytics** |
| [**Cyshield**](https://cyshield.bamboohr.com/jobs/) | **Data Science** |
| [**Data Gear BI**](http://www.datagearbi.com/) | **Data Mining, Business Intelligence(BI)** |
| [**Dataplusme**](https://www.dataplusme.com/) | **Data Analytics, Data Science, Big Data Analytics, Data visualization** |
| [**Dell EMC**](https://www.delltechnologies.com/en-us/index.htm) | **Machine Learning, Big Data** |
| [**DevisionX**](https://devisionx.com/) | **Deep Learning, Computer Vision** |
| [**Digified**](https://digified.io/) | **Machine Learning, Computer Vision** |
| [**Digisay**](https://www.digisay.com/) | **Machine Learning, Deep Learning** |
| [**DXWand**](https://dxwand.com/) | **Machine Learning, text and speech analytics, NLP, analytics services** |
| [**El menus**](https://www.elmenus.com/) | **Recommendation systems, NLP** |
| [**Elves**](https://www.elvesapp.com/) | **Chatbots** |
| [**Ericsson**](https://www.ericsson.com/en/careers/global-locations/middle-east-africa/ai-cloud-in-egypt) | **Artificial Intelligence, Cognitive Networks, Machine Learning, Data Science** |
| [**Etisalat**](https://www.etisalat.eg/) | **Machine Learning, Data Science** |
| [**Fixed Solutions**](https://wuzzuf.net/jobs/careers/Fixed-Solutions-Egypt-18523) | **Data Science** |
| [**Fruitful Solutions**](https://fruitful.solutions/) | **Deep Learning, Computer Vision** |
| [**Halan**](https://www.halan.com/) | **Data Analysis, Business Intelligence, Data Science** |
| [**Henkel**](https://www.henkel.com/) | **Data Science, Business Intelligence** |
| [**Heuro Labs**](http://www.heurolabs.com/) | **Artificial Intelligence, Cognitive Computing, Machine Learning, Big Data, Data Fusion and Data Mining** |
| [**IBM Egypt**](https://www.ibm.com/careers/uk-en/search/?filters=primary_country%3AEG) | **NLP(Watson practice team), ML, DL** |
| [**iHub**](http://ihub.asu.edu.eg/) | **Machine Learning** |
| [**Incorta**](https://incorta.com/) | **Data Analytics, Business Intelligence** |
| [**Ingram Micro**](https://www.ingrammicro.com/) | **Data Science, Business Intelligence** |
| [**InnoVision Systems**](http://www.ivsystems-eg.com/) | **Robotics, computer vision** |
| [**Intouch**](https://www.intouch.com/) | **Machine Learning, Deep Learning** |
| [**Itworx**](http://www.itworx.com/) | **Big Data** |
| [**Intixel**](https://www.intixel.com/) | **Machine Learning, Image Analysis** |
| [**Kazyon**](https://store.kazyonplus.com/store/kazyon/en) | **Data Science, ETL, Machine Learning** |
| [**Knowledge officer**](https://knowledgeofficer.com/) | **information retrieval and text summarization for articles on the web. Based mainly for many NLP and recommendation systems** |
| [**Koinz**](https://koinz.app/) | **Data Analysis** |
| [**Lenme**](https://lenme.com/) | **Machine Learning** |
| [**Lyra**](https://www.lyrise.ai/) | **Machine Learning** |
| [**Mawdoo3**](https://ai.mawdoo3.com/) | **Data Science, NLP** |
| [**Mendel.ai**](https://mendel.ai/) | **Artificial Intelligence in Medicine, Machine learning, OCR, NLP** |
| [**MerQ**](https://www.merq.ai/) | **Chatbots, NLP** |
| [**Microsoft ATLc**](https://www.microsoft.com/en-us/research/group/advanced-technology-lab-cairo-2/) | **ML, DL, NLP, OCR, Speech, Search engines(Bing team)** |
| [**MobiDev**](https://mobidev.biz/) | **AI apps** |
| [**Mwasalat Misr**](https://www.mwasalatmisr.com/) | **Data Analysis, Business Intelligence, Data Science** |
| [**Nawy**](https://www.linkedin.com/company/nawyestate/) | **Data Science, Business Intelligence** |
| [**Optomatica**](https://optomatica.com/) | **Machine Learning, AI and Optimization solutions, Analytics** |
| [**Oracle**](https://www.oracle.com/eg/index.html) | **Machine learning, Big data** |
| [**Orange Digital Centers**](https://www.orangedigitalcenters.com/country/EG/home) | **ML, Data Science** |
| [**Orange**](https://www.orange.eg/en/) | **ML, Big Data, Data Analytics** |
| [**Path Solutions**](https://www.path-solutions.com/) | **Big Data** |
| [**Pegasus**](https://www.pegasus-oe.com/) | **Data Analytics, BI** |
| [**Pixellion**](https://www.pixelliongroup.com/) | **Image processing, Machine learning, Deep learning, Computer vision, image recognition in the retail industry** |
| [**Pianat.ai**](https://pianat.ai/) | **Finance, ML** |
| [**Raisa Energy**](https://www.raisa.com/) | **ML, predictive modeling** |
| [**RDI**](http://www.rdi-eg.com/) | **Machine learning, Deep learning, Arabic/English OCR, Search engines, Information retrieval, Arabic/English NLP and Arabic/English speech recognition/identification** |
| [**Rology**](https://rology.health/) | **Computer Vision, Medical Image Processing, Machine Learning** |
| [**Sadeem®**](http://www.sadeemknowledge.com/) | **IoT & Business Analytics** |
| [**Scopic**](https://scopicsoftware.com/) | **Big Data** |
| [**Seeloz**](http://www.seeloz.com/) | **Data analytics, ML** |
| [**Smart Medical Services**](http://www.smart-medicalservices.com/) | **Machine Learning** |
| [**Soho Square Solutions**](https://sohosquaresolutions.com/) | **IR (Information Retrieval), ML, NLP (Natural - Language Processing)** |
| [**Speakol**](https://speakol.com/en) | **ML, DL, Big Data** |
| [**Stratochem**](http://stratochem.com/) | **Data analysis, Image processing, data mining** |
| [**SURE International Technology**](https://www.sure.com.sa/) | **Machine Learning, AI** |
| [**Swvl**](https://www.swvl.com/) | **Data Analysis, Business Intelligence, Data Science** |
| [**Synapse Analytics**](https://www.synapse-analytics.io/) | **ML, Computer Vision** |
| [**Sypron**](https://www.sypron.com/) | **Big Data, ML, DL, Computer vision, NLP, General AI apps** |
| [**TA Telecom**](https://www.tatelecom.com/) | **Big Data** |
| [**tachyhealth**](https://www.tachyhealth.com/) | **Machine Learning** |
| [**Tactful**](https://www.tactful.ai/) | **Conversational Agents, NLU, DL, Information Retrieval** |
| [**Tensorgraph**](https://www.tensorgraph.io/) | **AI, Voice Recognition** |
| [**Teradata**](http://www.teradata.com/) | **Big Data Analytics, machine learning and data mining** |
| [**The D. GmbH**](https://thed.io/#/) | **NLP, Chatbots, Computer Vision, Video Analysis** |
| [**The Procter & Gamble**](https://www.pgcareers.com/) | **Data Science** |
| [**TPay Mobile**](https://tpaymobile.com/) | **Data Engineering, Data Analytics** |
| [**Tpay**](https://www.tpaymobile.com/) | **Machine learning** |
| [**Usy tech**](http://www.usytech.com/) | **NLP** |
| [**Valeo**](https://www.valeo.com/ar/%D9%85%D8%B5%D8%B1/) | **ML, DL, reinforcement learning, Computer vision, Autonomous driving** |
| [**valify**](https://valify.me/) | **Machine Learning** |
| [**Vodafone**](https://web.vodafone.com.eg/ar/home) | **Big data, ML** |
| [**Wakeb Data**](http://wakeb.tech/) | **Business Intelligence, Data Analysis, Artificial Intelligence** |
| [**Wego**](https://eg.wego.com/en) | **Data analysis, Machine Learning, Recommendation Systems** |
| [**WideBot**](https://widebot.net/platform/) | **Chatbots, NLP** |
| [**Wuzzuf**](https://wuzzuf.net/) | **Machine learning, NLP(new project(s)), Search engines, Recommendation/Ranking systems and information retrieval** |
| [**Xtrava**](http://xtrava.co/) | **Machine learning, Deep learning, Signal processing** |
| [**Yaoota!**](https://yaoota.com/en-eg/) | **Search engine, Big data, ML, NLP** |
| [**Z2data**](https://www.z2data.com/) | **Data Analytics** |
| [**ztechnium**](https://ztechnium.com/) | **Machine Learning, Recommendation Systems** |
| [**smarteye.se**](https://smarteye.se/career/) | **Machine Learning, Computer Vision** |
| [**bydotpy**](https://www.bydotpy.com/index.html) | **Machine Learning** |
| [**Lumin**](https://luminsoft.net/) | **Machine Learning, Computer Vision** |