# SLOSH START-UP COLLABORATION WITH FAST-NU

CEO: Aiman Khan

#### WHAT IS ARTIFICIAL INTELLIGENCE

DEVELOPMENT OF COMPUTER SYSTEMS ABLE TO PERFORM TASKS NORMALLY REQUIRING HUMAN INTELLIGENCE, SUCH AS VISUAL PERCEPTION, SPEECH RECOGNITION, DECISION-MAKING, AND TRANSLATION BETWEEN LANGUAGES.

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#### AI FOR ALL

- ARTIFICIAL INTELLIGENCE IS SPREADING AROUND THE WORLD AND APPLICATIONS ARE CREATED ON DAILY BASIS TO HELP IN DAILY LIVES.
- WE ARE STILL AT DEVELOPING STAGE BUT IF WE START WORKING TODAY, IN A FEW YEARS WE MIGHT BE ABLE TO BRING THIS DIFFERENCE.
- BETTER TECHNOLOGY-BETTER FUTURE
- FRESH STUDENTS AND GRADUATES, YOUNGSTERS ARE OUR PILLARS. THEY HAVE THE POTENTIAL TO CHANGE THIS COUNTRY. PROPER TRAINING AND PLATFORMS NEED TO BE DEVELOPED.

#### WHY ARE WE DIFFERENT?

- WE ARE FORMING A COLLABORATION BETWEEN
  - Doctors
  - ELECTRICAL ENGINEERS
  - COMPUTER SCIENTISTS
  - Business Developers
- WE ALREADY HAVE PROJECTS RELATED TO
  - HEALTHCARE (MEDICAL IMAGING AND DIAGNOSTICS)
  - **S**ECURITY
- WE ARE HIRING AND SEARCHING FOR
  - STUDENTS
  - FRESH GRADUATES
  - TALENTED YOUNGSTERS

#### WHY COLLABORATION WITH FAST?



CEO of company is FAST-ALUMINI



Searching for Talented Employees: Job Opportunities for fresh graduates



Collaboration of Electrical Engineers and Computer Scientists with Medical Doctors

#### PROJECTS UNDER DEVELOPMENT

MEDICAL IMAGING AND DIAGNOSTICS USING AI

BRAIN TUMOR DIAGNOSIS

Breast cancer Detection

**TUBERCULOSIS DETECTION** 

#### OCCLUSION INVARIANT FACE RECOGNITION



#### MIDL-MEDICAL IMAGING AND DIAGNOSTICS LAB













HIGHLY
BUDGETED
PROJECT FROM
HEC (10 CRORE
PKR FUNDING)

WORKING
UNDER (NCAI)
NATIONAL
CENTRE OF
ARTIFICIAL
INTELLIGENCE

LAB AND SPACE
ALLOTTED IN
COMSATS
ISLAMABAD TO
ACCOMMODATE
20 RESEARCH
ASSOSIATES

LAB RESEARCH
ON LATEST
ALGORITHMS OF
MACHINE
LEARNING, DEEP
LEARNING AND
IMAGE
PROCESSING.

A START-UP
WITH JOB
OPPORTUNITIES
IS ESTABLISHED
FOR PRODUCT
DEVELOPMENT
AND
COMMERCIALIZAT
ION OF THE
PROJECT

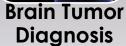
AN MOU IS
SIGNED
BETWEEN RMU
AND COMSATS
TO
COLLABORATE IN
TERMS OF DATA
AND RESEARCH

#### EARLY CANCER DIAGNOSIS USING AI

- WE ARE CREATING EARLY DIAGNOSTIC SYSTEM USING AI BASED
- CAD SYSTEMS FOR
- Brain Tumor Diagnosis
  - INPUT: MRI IMAGES
  - OUTPUT:
    - CANCER DIAGNOSIS
    - STAGING
- BREAST CANCER DETECTION
  - INPUT: MAMMOGRAMS
  - OUTPUT:
    - CANCER DETECTION
    - STAGING
- Tuberculosis Detection
  - INPUT: XRAY
  - OUTPUT: POSITIVE OR NEGATIVE TB









Breast Cancer Diagnosis



**TB Diagnosis** 

## Lives Lost due to Cancer. They were Passionate to do so much more for this World.. The list goes on and on....



Dr. Rasheda Jabeen Aged: 40 PhD



Farah Tazeen aged :48 Former newscaster (British)



Ali banat age: 32 years Austrailian bilionare



Charlotte Ellertson
Social worker
Breast Cancer



Aamer Bashir Former cricketer Aged: 38



Dick McCabe (American football) Aged: 49



Vere Wynne Jones Aged: 56 Journalist



Azhar Ul Islam Aged: 56 Civil Engineer



Ibrahim Toure Aged: 28 Footballer



Michael Stevens Aged: 49 Producer



Angela Rosenthal Aged: 47 Art Historian



Don Rhymer Aged: 51 Screenwriter H

#### AIM: EARLY DIAGNOSIS SAVES LIVES

- REDUCE HUMAN SUFFERING
- AID DOCTORS IN FASTER DIAGNOSIS
- SECOND OPINION SOURCE
- THE KEY TO FUTURE SUCCESS LIES IN REALIZING THAT DOCTORS AND COMPUTER SCIENTISTS CAN WORK ON ONE PLATFORM TO BRING THIS EVOLUTION.

### HOW THIS COLLABORATION BETWEEN FAST AND SLOSH CAN WORK?

- PROJECTS WILL BE ASSIGNED BY "SLOSH-AI SOLUTIONS" AND MID-LAB TO STUDENTS OF APPLIED MACHINE LEARNING STUDENTS IN FAST-NU AS A PART OF LAB.
- DEMOS WILL BE CONDUCTED BY THE COMPANY AND STUDENTS WILL BE PROVIDED JOB OPPORTUNITIES AND LEARNING COLLABORATIONS ACCORDING TO THEIR TALENTS.

