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(71)**Name of Applicant :**
  1)**Chitkara University**
    Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- -----------
  2)**Chitkara Innovation Incubator Foundation**
Name of Applicant : NA
Address of Applicant : NA
(72)**Name of Inventor :**
  1)**KAUR, Gaganpreet**
Address of Applicant :Associate Professor, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- -----------
  2)**KAUR, Mandeep**
Address of Applicant :Assistant Professor, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- -----------
  3)**PRABHA, Chander**
Address of Applicant :Professor, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- -----------
  4)**VEERAMANICKAM M.R.M**
Address of Applicant :Associate Professor, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- -----------
  5)**N. BHARATHIRAJA**
Address of Applicant :Associate Professor, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- -----------
  6)**MITTAL, Teena**
Address of Applicant :Associate Professor, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- -----------

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(57) Abstract :
The disclosed embodiments illustrate a system (100) and method (400) to detect brain tumors automatically using SegNet and feature extraction techniques. The system includes a database (102) storing brain MRI images of multiple human beings, and a processor (104) is configured to process received one or more medical images from an input device (108) to determine severity of brain tumors accurately. To process the received medical images, firstly the received medical images are pre-processed. Upon pre-processing, each of the received medical images partitioned into multiple segments, and one or more features are extracted from the multiple segments using a gray level co-occurrence matrix (GLCM) method. Furthermore, determine whether the person is suffering from brain tumor or not, and upon detection of the brain tumor, level of brain tumor is evaluated.

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